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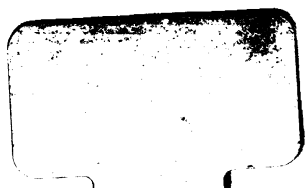
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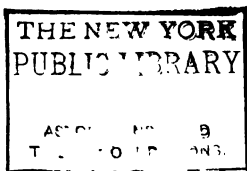




**THE**  
**GRIFFIN'S AIDE-DE-CAMP.**

LONDON:  
PRINTED BY S. & J. BENTLEY, WILSON, AND FLEY,  
Bangor House, Shoe Lane.





"The style of a man may be known by his horse."



THE IMPOSSIBLE HORSE.

THE

GRIFFIN'S AIDE-DE-CAMP.

BY

BLUNT SPURS. (pseud.)

LONDON:

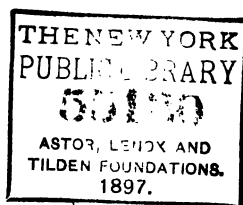
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TO

MAJOR OUTRAM, C.B.

RESIDENT AT THE COURT OF HYDERABAD, IN  
SCINDE, ETC. ETC.

As an admirer of your public talents and private virtues, as well as of your justly celebrated character as one of the best hog-hunters on the Bombay side of India, but as no admirer of the neglect in your stable, this volume is dedicated by your much obliged friend,

BLUNT SPURS.



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## P R E F A C E.

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BROTHERLY love and friendly kindness being generally shown in an inverse ratio in the purchase of a horse to what they are in any other transaction, and the loss sustained from the high price being often ruinous and provokingly vexatious, I publish the following pages, in the hope that you, as well as your noble but ill-treated slave, may mutually derive benefit from the contents.

I have never fallen in with any little pamphlet entirely divested of technical language, such as a tyro would like from its simplicity, giving plain and succinct directions how to purchase a horse for a racer, charger, and hunter, together with an easy account of putting him into con-

dition, &c., and showing how far he might venture to treat him when diseased. What is here written has been gained by study from works of others,\* and what professional men have taught me, interspersed throughout with my own observations. Proceeding from an undiploma'd hand, these are not supposed to be infallible; but though errors may exist, they will not lead far out of the right path, and perhaps will aid a novice when buying, and afterwards tend to prevent him ruining his horse by inju-

\* This acknowledgment was the cause of my book, when in manuscript, being much depreciated, and by one of the very persons who, no doubt, will most benefit by it. "Compile!" said he, "any body can compile." Now, discoveries of this kind are of a *green*, and also of a jealous hue. How are our ideas confirmed, and how is our information got, if not from books? All amateur writings must of necessity be more or less compiled; but it is only amateurs who have studied, and reflected, and had practice on such a subject as horseflesh, that are capable of *translating* scientific and technical English for the understanding of their brethren. Nearly the whole of the last part of this work, to say nothing of much of the preceding parts, will be a compilation, then, if you like, from various professional and other authors; but as I have had some little experience, I reserve to myself the liberty of extracting from those whose opinions approach nearest my own.

dition treatment, more than if he pounced on a scientific veterinary volume. These learned books are but ill-adapted to a person who has neither had experience, nor given the subject any attention; and they are daily misunderstood, even in their most simple parts.

If I am occasionally a little censorious, remember, this is the best mode of impressing things on the memory; and if you are of opinion that the contents are very generally known, I can only say, that it is a great pity they are not more generally practised: at the same time, I may inform you, this is not written for those who do know, but for those who do not, so that for the future we may all start even.

I beg one favour—that you will not be so inconsistent as to deride the contents of this little treatise, and at the same time adopt the precepts it contains; and moreover, if you do, take care you never invite me to inspect your stud, or I will “show up” more faults in each horse than you thought existed in the whole of the Bomb Proof.

To enable you, condescending reader, who may read for instruction, to purchase a casty, sound, and useful Arab; to keep him in condition always fit for work; to take your gallop out of him without injury, or to bring him on the turf; and to prevent your inflicting unnecessary pain when illness overtakes him, is the object of

## THE GRIFFIN'S AID-DE-CAMP,

IN FOUR PARTS.

I. PURCHASING FROM THE STABLES, ETC.

II. THE AGE, THE PULSE, BLEEDING, PHYSICKING, SHOEING.

III. PUTTING INTO CONDITION. TRAINING.

IV. TREATMENT OF A FEW DISEASES.

THE Reader is requested to correct with a pen the following

ERRATA.

PAGE

- xii, 257, 259, 260, and 273, *for bursantee, read bursantee.*  
26, *for fifteen hands, read fourteen hands.*  
40, *for parting, read paring.*  
72, *for page 5, read page 8.*  
74, in the Outline of the Horse, the bog-spavin, No. 9, requires the line to  
be brought further forward between the figures 7 and 8.  
93, *for grain, read green.*  
103, 119, 121, 146, 147, 149, and 151, *for ghoon, read ghoor.*  
128, 182, 190, and 193, *for page 101, read page 102.*  
145, *for the boiled food, read that boiled food.*  
149, 196, and 258, *for chre cate, read chree cate.*  
160, *for to get into condition, read putting into condition.*  
162, *for syces, read syces.*  
174, *for rack salt, read rock salt.*  
196 and 253, *for page 99, read page 100.*  
201, *for page 100, read page 101.*  
205, *for page 272, read page 271.*  
225, *for bambooke pulta, read bamboo-ke-putta.*  
247 and 250, *for page 238, read page 239.*  
259, *for Seem ke putta, read Leem ke putta.*  
261, *for page 178, read page 265.*  
264, from the word "unsoundness," down to the word "fraud," requires inverted commas.





THE  
GRIFFIN'S AID-DE-CAMP.

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PART I.

PURCHASING FROM THE STABLES, ETC.

THE CASTE.

HIGH CASTE, or thorough blood, of course is the first thing to be observed in selecting an Arab for the turf, for without good caste it is all labour in vain; but as there are different breeds, each possessing high caste, it is sometimes difficult to decide which is the better bred out of three or four that happen also to be all well built; therefore, when it is an option between two of equally supposed good caste, do not hesitate, when buying for the turf, to choose that one shining most in running points in preference to the finer or handsomer horse; and these points are not so universally known, and very seldom remembered, if known, when in the act of purchasing. Be quite certain first, that you really are inspecting an Arab, for there are

## 6 PURCHASING FROM THE STABLES, ETC.

many that are taken to be of good caste that never saw Arabia, nor sprang from Arab stock ; and though the speed which some few of these have occasionally shown, is proof that they must, by either sire or dam, have inherited good blood of some country, still, they are not to be trusted like the genuine Arab, whose pure descent and unsullied pedigree is generally graced with a shape that rarely or never deceives. There is a beautiful symmetry and harmony of proportion running through all the frame ; a superb quarter, with a high set on, well-carried tail ; a softness and thinness of skin ;\* a brilliancy of eye, and an elegant contour of head ; qualities that mark the true blood, and which never exist in the numerous spurious brutes that so abound in the stables.

While these handsome points may be relied on as a sure criterion of caste, there are many that have good caste without showing it externally : these can only be proved on the day of running. Good build of itself in a great measure insures good caste,† nevertheless, many good

\* Yet there are many that in the cold weather will wear a rather long coat, and be very sleek in the hot months.

† The three following extracts serve to corroborate this. I think they are also quite sufficient to refute the absurd saying, " No consequence what a horse's build is ; if he has only blood he'll run." That thorough breeding in a bad formed horse, will

caste horses are seen badly formed, and many half or three parts bred, well formed. High caste united to a running form, will never fail; and some horses, when led out, show such superior blood, energy, and build, that if properly trained, and nothing constitutionally wrong, they would be sure to gallop: others showing *externally* only tolerable good caste, but good make; or good caste but indifferent make, may be called the doubtful ones: while there is a third, a numerous

generally beat half breeding in a good formed horse, must be granted; but the slightest superiority of build in any part of the frame between two of equal blood, is known to every stable-boy to be of the greatest importance:—

Osmer, page 221. On Form and Performance. “For if a different formation of the parts, &c. and the degrees thereof, be not the cause of difference in the performances, why then one of these horses of the right and true blood would act alike on all ground whatever, and be just as good though made like a hog and without joints.” Again, page 229. “In the nature and elegance of their constituent parts, and the due formation thereof, consist the difference between horses of the same and different countries; or betwixt blood, and no blood.” Again, page 230. “Conqueror and Othello were two full brothers, but one was a king and the other a beggar, with respect both to form and action. If then the difference in the performance of these brothers did not depend on their different formation of parts, &c. pray tell me on what it did depend, for the cause of it couldn’t be in the blood, unless you will say this innate quality may appertain to one brother and not to another; and then, I apprehend, the bystanders will say you have proved nothing.”

class, which one may with safety declare will never run, and many of these are handsome notwithstanding. But an ugly horse may have as much chance of running as a handsome one, provided the different essential running parts of his frame harmonize; that the joints are all equally corresponding with the size, and that the hind parts agree in relation to the fore parts, for "ugliness, though the opposite of beauty, is not the opposite of proportion and fitness," \* and so it is with the horse.

To distinguish high caste appears a very complex affair at the imperial mart of the Bomb Proof: but, produce me an Arab with a straight spine, and a straight long quarter; a muscular and handsome dropped hind leg; a round barrel, swelling well out behind the elbows, with great depth of girth, and a moderately broad but flat chest; a very oblique and deep shoulder; a light neck; a well set on lean head, with a large brilliant eye, thin open nostril, deep mouth, wide clear jowl, and small silky ear;—give me this make, with the upper inner bone of the knees and hocks large, and hinder bone of each also large, and the back sinews clear, powerful, and wide away from the suspensory ligament; the whole covered

\* Burke on the Sublime.

with a fine thin skin, and finishing with small, but well open, short, tough feet, and I'll take the caste for granted. If added to this, he is a long horse; five years old; perfectly fresh; short between the knee and fetlock; fourteen hands two inches high; higher at the croup than at the withers; fine action, and a good constitution, I'll take the speed besides for granted; for when these latter qualities of fine action, and a good constitution, are united to all the above form, the only remaining desideratum, the nervous excitability,\* will then always be found, more or less, associated with it.

THE BUILD, COMMENCING WITH THE QUARTERS,  
TAIL, THIGHS, STIFLE, ETC.

Four of the most desirable points for the racer are, powerful well-shaped quarters, thighs, and stifles; and large, lean, bony hocks. The straighter and longer the spine is from the croup

\* Nervous excitability is used in contradistinction to dull temperament, yet there is a peculiar kind of docile laziness of temper characteristic of many high caste Arabs, but which, by dint of good training, put forth their energy, and shine on the turf as well as others of more choleric blood:—

J. Stewart, p. 55. “It is to be remembered, that good con-

—the end of the loins—to the setting on of the tail, so much better is the quarter; for the most scientific writers tell us, that the straightness of the spine here, causing a slanting direction in the haunch and thigh-bones, enables the muscles to act to the greatest advantage, and that it is in the advantageous direction quite as much as the bulk of the muscle that the propelling power lies. Let that, therefore, be a *sine-qua-non*, that from the end of the loins to the setting on of the tail the spine must be straight, or nearly so, and it cannot be too long. A broad quarter may carry weight, but it must be long also to gallop, and the tail should be carried out straight, and carried well (it does not require always to be carried high to be carried well, but it requires to be well set on, that is, set on high up). The tail of a blood Arab is likewise generally thin, of small circumference, tapering to a very small point, and the hair on it not too bushy. “Full mane, if you like, but thin tail.” Carrying it on one

formation merely gives the power to perform extraordinary exertions; the will to exert that power depends on something else, which appears as necessary for great feats as the conformation. This energy, or disposition to work, may be too great for many purposes. The racer, indeed, can never have more than enough: it is a combination of energy with good conformation that commands eminence on the turf.”

side can be no sign of bad caste, although it certainly looks ugly. .

The thighs should be as broad as the haunch-bones; and as much as they swell out broader, they are better. A horse that is ragged-hipped, it is said, is not objectionable; but by this is meant, that, *notwithstanding* the great muscularity of the quarters and thighs, the protuberances of the haunch-bones still project a little wider; and not from the quarters and thighs being at all deficient in muscle, which is often also called ragged-hipped, and makes the haunch-bones look a little prominent.\* Great thigh-muscle may recompense in some degree for a slight droop in the croup; but great thigh-muscle, added to a long and straight croup, is the make for the turf. A large hinder channel, from the anus downwards, caused by the muscles projecting, and being well asunder, is another good point, and much admired: it is a sign of great endurance.

\* The side bones of the loins—the transverse processes of the lumbar vertebræ—being short, are a cause of a horse being ragged-hipped; and these side bones being thus short, are also the cause of a horse being wall-sided; therefore it is that a wall-sided horse often looks ragged-hipped; but a deficiency of quarter and thigh-muscle, which causes the haunch-bones to stick out a little, is much oftener called ragged-hipped.

The stifle, and all that below it, must be broad and strikingly muscular: he must be what is termed well let down in the thighs, plenty of muscle inside the thigh as well as outside, never hare-hammed; and the muscle just above the outside of the hock, in particular, should be large.\* Some horses are accounted too long in the haunches, forcing them off at full speed, but this is not against their running well. These three points, the quarter, thigh, and stifle, show the blood of a horse quite as much as the head, eye, and jaw. A muscular and elegantly dropped hind leg, having a fine elastic spring, is far more difficult to find than a casty head.

THE HOCKS AND THE HIND PARTS PROOF OF HALF  
THE BREEDING.

The hock of a fresh unworked Arab is generally beautifully formed, and clean, and particularly excelling in the hind projecting bone at the point. You must never expect a runner in one who is glaringly deficient in this. The hock should be broad also from side to side;

\* The part a little below the stifle being narrow and wanting muscle. See Frontispiece.



the bone at the *upper inner* part prominent. As to whether the leg for a running horse should descend straight from the hock, or incline under the body, neither should be in extreme: there is a medium. The stride is said to be lengthened by its being well bent under, yet, that there are objections, arising from the greater wear of the hock, that greatly counterbalance this. Either for a racer, charger, or hunter, a rather straight drop for an Arab will be best and handsomest. In the high caste Arab, it invariably does descend rather straight, but whether the leg from the hock is bent under or straight, the hock itself must neither turn in nor out; if the former, he will be cat-hammed, making his legs like an ill-shaped cow's, or, as the ladies say, donkey-legged; if the latter, which is not so often met with, the toe will turn in, which is worse. For a running horse, it is an advantage if the toe is behind the stifle-joint.

A BONE SPAVIN in the clean hocks of an Arab, is generally visible enough if situated at the top of the splent-bone, that is, *on the inner side of the lowermost part of the hock*. If he should be spavined higher up, or the ligaments have been strained, it is not so easily perceived as the former, but in either case both the hocks will not look exactly alike; and this will be quite

sufficient to reject him. A small bone spavin is often a most difficult disease to detect; and this is not extraordinary, considering that professional men have in some instances been deceived, from not examining attentively. A spavin on the head of the splent-bone, on the inner side of the lowermost part of the hock, is often productive of no lameness if situated well forward, not even though it be as large as a marble; therefore this, although the most frequent seat of spavin, is not so bad as that which lies a little higher up, for here is the principal motion of the hock, and the smallest ossification always causes more or less lameness. You must discover if there is the slightest difference either in the feel or appearance of the hocks in these two places (for a horse is seldom spavined in both hocks in exactly the same manner), and if there is, pause before you conclude the bargain. Should there be any difference on the outside of the hock, blows, kicks, or hurts have most probably produced it, not strains or over work, although spavin is occasionally found in this part likewise.

If the least swelling or enlargement exists in any part of the back of the hock, below

the point, which may be detected by carefully observing if they are both alike, you must reject him also; for this will denote a strain, perhaps a curb.

CAPPED HOCKS are a great objection; they proceed from blows, hurts, or contusions from kicking, rarely, it is said, from a strain; but are apt to enlarge on work. When the hocks are but very slightly capped (for if one is capped the other is generally found so too), they may give the appearance of the bones of the points being long. Don't be deceived in this way, but feel if there is anything like a tumour there.

THE BOG-SPAVIN, a puffy swelling in front of the bend, and a little towards the inside of the joint, can never be mistaken if the finger is pressed on the large vein that runs over it, which will now sink in half an inch, and when the finger is taken away, bulge out again. If found in one hock, the other will generally have it also; and therefore, as far as this disease is concerned, though they may appear alike, they yet look full and fat, not lean and dry, as they should do. Bog-spavin generally looks larger in the middle of the day, the cold in the morning before going to exercise acting

as a sedative ; or the excited action of the absorbents during and immediately after exercise operating in keeping it down a little.

THE THOROUGH-PIN, another small puffy swelling on the outside of the hock, nearly on a line with the point, and running through to the inside, may not prove any hindrance even in hunting ; but for a racer there should be no doubt about the hinder extremities in any way, either as regards build, injury, or disease ; they are the grand agents in progression, and a race-horse, to shine, must be nearly perfect in every thing behind. You are not to infer from this, that a horse can run because he has no defect in his hind parts, only, that he will rarely run well if he has. Formed as described under these four heads of Quarters, Thighs, Stifles, and Hocks, they will look handsome both to the eye of the novice as well as the judge ; and if, added to this, he has a decided casty head, you may take it for granted he is well bred ; but the handsomest and most casty head that was ever on an Arab is only indicative of half the breeding, the hind parts must be formed as before laid down, to prove the other half.

All the good breeding in half or three-part bred horses will sometimes show itself in front, sometimes behind : for instance, put a thorough-

bred horse perfect in make to a half or three-parts bred mare: one year a foal will probably be thrown badly formed behind, with a casty head and good forehand; another year one perfectly formed behind, with an ugly head and bad forehand. The latter of these, with the good hind parts, both being of equal good blood, would be the most promising for running. But again, a half or three-parts bred horse, even possessing all good running points, will, nineteen times out of twenty, be beaten in a long race by a thorough-bred horse not so well built as himself. This is well known in England, and the same law, of course, holds good with an Arab.

#### THE HEAD, NOSTRILS, MOUTH, LIPS, EYE, EARS, ETC.

The head ought to be lean and bony; the jaws wide, and not fleshy; the channel clean, and not filled up.

The nostrils must be open and thin, or he is useless for the turf; the best training in the world will never compensate for a thick shut nostril.

The mouth should be deep—a laughing mouth—which will allow more room for the opening of the nostril, and also give him a better mouth.

The lips should be thin and evenly closed, for the under lip hanging loose is a very unfavourable omen of his running.

The eye is never too large, and scarcely ever too prominent. A small eye should be objected to, as being more liable to disease, and symptomatic of cross blood. I warn you to look well into the eyes, so very many bear the milky marks, the result of inflammation. Whenever you find one with a cloudy appearance round the edge and close to the white, or one with white marks streaked across the centre, or one which on a close examination appears a little smaller than the other, or puckered in the lids, depend upon it there has been disease, which is likely to return. Recollect a horse's eyes are not placed like a man's: if he is blind with one eye, he is nuable, without turning his head round, to see any thing on that side with the other. The slightest derangement in the eye may at times prevent him using his speed to the utmost. Should any speck of white be observable near the centre of the eye, it has been caused by some blow or hurt, and may interfere with the passage of the light through the pupil: you should therefore distrust it, for it is a very ugly blemish at all events, and reduces the value considerably. Some few others bear

a resemblance to the green glass eye: there is as much difference between the clear, transparent, bright, healthy eye, and this glass eye (which is written as arising from a loss of power in the optic nerve, and generally incurable,) as there is between a polished diamond and a piece of window-glass. Shying is occasionally connected with some little alteration in the organs of vision, imperceptible to us who are not oculists. \*

The ears of a genuine Arab are small, and the hair inside is silky: they never have that tremendous curling in of the points so proverbial among bad Persian and country-bred horses. Lop ears are quite as ugly as those that curl in, but a large lop ear, if only well shaped, rather peaked, and not large round at the points, with a thin skin, is no such sign of bad caste; it appears to belong to a peculiar breed.

The glands below the ears are sometimes found swollen; and if much so, may be a serious detriment.

\* If you blow a soap-sud bladder between your thumb and fore-finger, and hold it up to the light, you will discover a kind of purple variegated streaks on the surface: these colours you will often see over the horse's eyes by narrowly inspecting them, keeping the head in a greater light than the body, as just within a stable door. I do not know their cause, but imagine they have no business there.

A small head on a large horse, or large head on a small horse, are of course equally out of proportion ; a trifle either way is perhaps immaterial, if only lean, with the large eye, broad forehead, and hollow jowl ; yet, a head possessing these and all the foregoing good points, may still, from some peculiarity of conformation, not altogether please the eye, or be a very handsome head ; but one void of these requisites can never be termed a blood head. A "cut short" head, with a slight indentation about half a foot above the nose, is a great favourite with some judges. I like it too.

#### THE NECK.

The neck of an Arab I never knew too light or too long, though it is often quite long enough. Take care especially that it is light, and that the upper surface is not too thick : it should be very muscular towards the bottom, but enter the chest above the points of the shoulders ; if it does not, you will have neither speed nor lightness of action : it must also curve a little where the head is set on, or he will pull against your arm, and feel heavy in hand, consequently this will never answer for a charger or hunter, and it is nearly as bad for a racer. There must be no superfluous thickness



on the upper part of the shoulder-blade: the division of the neck and shoulder must be distinctly marked; any extra bone at the upper part of the shoulder-blade, filling up the line of demarcation between it and the neck, always makes a horse go more or less stiff, and this is particularly observable in thick necks; yet, there must be sufficient muscle below to prevent the neck being a "loose neck." If he has a neck like a deer it is ugly, and does not afford so free a passage to his breath: the deer necks, however, with all the flesh set below, are not so bad as those where the upper surface is thick, and it is all set on above. Ewe necks, if only slightly ewed, and light, and not entering the chest low down, are rather favourable than objectionable for a racer.\* The rounder a neck is the better; and if only shallow from mane to under surface, there is no fear then of its being too muscular from side to side. No thick neck is fit for the saddle, and a bull-neck is fit for nothing but a bullock-garree.

\* Darvill, vol. ii. p. 10. I have a great aversion to a high-crested race-horse.

## THE WITHERS AND BACK.

High withers you will not always find, but they should undoubtedly rise a full inch higher than the top of the shoulder-blade, or if you like the expression better, as high withers are not at all necessary for the turf, the top of the shoulder blade must be a full inch below the top of the withers;\* and if the withers are wide at top he will generally carry weight better than if rather fine. After the fall of the withers the spine must run straight, without any ups or downs, or arches, to the croup at the end of the loins, that is, to the centre between the haunch bones; and from there, as mentioned before, it must be carried out straight to the tail. If the spine has any of these arches the back will be galled by the saddle, and if there is a depression at the back of the saddle, where the back and loins join, it shows weakness. A depression also where the loins and croup join, "the hind quarters looking separated from the back," is twenty times worse. After the fall of the withers the spine is often straight, yet gradually ascending; this is an advantage, provided

\* I once saw an Arab—a deformity—with the top of the shoulder-blades higher than the withers, yet he was hog-hunted.

the ascent is continued to the end of the loins; and if from thence it is gradually carried on to the tail, he will, notwithstanding a good height of withers, look higher behind than before, which is favourable.\* The straightness of spine is essential: a horse at full speed, with his head and neck thrust out, gallops as horizontally as possible: a hollow backed horse scarcely ever runs well. Purchase none for the turf, therefore, but what may not be inaptly termed a horizontal horse.

It is actually requisite to have some length of back for the turf, and *provided* the quarter is long, the shoulder oblique, and the spine straight, there is not much fear of the back being too long. A long quarter, a moderately long back, and a rather long neck, must necessarily make a tolerably long horse, which is the form desired for a racer. A tall, short horse, is not found to keep the pace up so well as one that

\* William Osmer. Fifth edition. Treatise on the Horse, p. 222. "If the forehead be more lofty than the croup, he cannot run worth a curse." How ridiculous it is to see a London horse-dealer placing the horse, when brought out for inspection, with the forelegs on the highest ground, making him appear of that build as if he would slip his girth. A well-built horse should merely have a nice rise in the withers, but the above abominable position ruins the appearance, making the whole backbone from the withers to the tail gradually declining backward like the formation of a camelopard.

is longer. The length should therefore be great from the point of the shoulder to the hindermost point of the quarter; and then, if with this long quarter added to a good oblique slanting shoulder, the fore-legs are planted well forward, and the hind-legs properly dropped, there will be observable that "shortness above and length below" so much sought after; in other words, there will be a long horse with a short back. The reverse of this, a short horse with a long back, is shown in the frontispiece. So, the true meaning of a long horse being length from the point of the shoulder to the hindermost point of the quarter, it is very possible to have a long horse with a short neck also, which, if light, and with a curve where the head is set on, will do admirably for a racer: or to have a short horse with a long neck, which is more adapted for a charger or hunter.

#### THE SHOULDER AND CHEST.

The shoulder must run back with a good slant; and then, if the withers rise a full inch above the top of the shoulder-blade, it will not be found too heavily laden. It has been asserted, by both Europeans and natives who have been best con-

versant with the Arab, that nothing denotes the superior caste more than that extreme obliquity of shoulder, and certainly nothing denotes the make more. When the shoulder is very oblique, how short the neck appears below from the back part of the channel to the chest ; and how long above from between the ears to the withers ! What superb conformation ! An unexpected trip easily throws a horse with a straight shoulder down, and he generally hangs very heavy in hand as he tires. The straight-shouldered horse, if shining in other points, may pass handsomely for draught in a carriage or buggy, but will never answer well for the saddle. From the top of the blade to the point it should be long, very long, for that will compensate for a little deficiency in the obliqueness ; and the space from the point to the fore-arm, or leg, particularly short, in order that the legs may stand well forward ; and the chest should be moderately broad, in order that these forward legs may not be too close together, but while it is broad it must also be flat ; not concave and hollow, but flat, and not overloaded in front. A round full chested horse will do very well as a carriage-wheeler, but not for the turf. The great, broad, rounded and projecting hang-over chests, with the fore-legs often inclining under the belly, are con-

tinually called fine chests, but they are as bad as bull-necks.

#### THE DEPTH OF GIRTH, AND CARCASE.

The depth of girth cannot be too great, and the carcase, which should resemble a barrel, and not be flat-sided, should swell out well under the elbows; then, with the moderately broad chest, you will be sure to have what are indispensable, good large lungs. A carcase that is flat-sided is equally bad for running as for appearance. The depth of girth is a point that admits of measurement, but then the chest must sink deep between the fore legs, or else very high withers alone may contribute more than their proper share to make a large girth: sixty-four to sixty-five inches will be very good for an Arab of fourteen hands to fifteen hands one inch; but if you have an eye for a horse, you will tell at once if it is good, or not. There should also be some distance between the last false rib and the haunch-bone, that the hind legs in the gallop may be thrown well under: this is allowed to be an excellence in the racer, though it detracts a little from the strength.

Horses, whose carcasses are light, and legs rather

long, "showing too much daylight," have been run down far more than is necessary: they are only objectionable for heavy people. When there is good build otherwise, a small round carcase, if it only swells out behind the elbows, need never be objected to by a light weight, for it rather adds than detracts from the beauty, and they are often splendid runners. A large carcase; a large circular barrel, with deep ribs, deep in the fellers, must have large broad flat legs to carry it, or they will quickly fail.

## THE ELBOW AND FOREARM, ETC.

The elbow, the bone at the top of the forearm, must be large and not turn in: the top of the forearm must be decidedly swelling and muscular: the length of the forearm from the elbow to the knee cannot be too great, in order that the distance between the knee and fetlock may be proportionably short: these are three indispensable points, but the two first are seldom sufficiently scrutinized. A horse with a thin forearm and corresponding lanky thigh, cannot possibly run, nor stand work either.

THE KNEE, AND BACK SINEWS, AND SUSPENSORY  
LIGAMENT. THE SHANK-BONE, FETLOCKS, ETC.

The knee must be broad and flat : the *upper inner part* should present a striking width, or it will look round, which is ugly, and does not betoken strength. If there is the slightest bony excrescence in front, it may interfere materially with his running, and which firing and blistering will often fail to remove ; and if there is any puffy swelling, it is worse than the bog-spavin. The hinder bone of the knee cannot be too large, so that the leg may not be tied in, that is, that the back sinews may be wide away from the shank bone ; and these back sinews should feel smooth, strong, and well braced, like a piece of catgut tightly covered with fawnskin. The back sinews cannot always be told by the feel ; they must be carefully inspected at each side, for sometimes, while they feel smooth, strong, and wiry, there will be an evident difference in the size about the centre ; a very slight bow—a sure sign of having been injured. The suspensory ligament, the centre rope, must also feel and look, like the back sinews, fine and wiry. There is, however, a distinction between smallness immediately below the knee, and that



lying in which deforms the legs, and it consists in this. Some of the best Arabs, even while the hinder bone is of good size, are yet small below the knee, but equally small at the fetlock; this is no imperfection, but merely renders such horses a little slight, and in this sense is not very good for the turf, and a great objection to weight certainly; but one that is small below the knee, or if not very small, yet gradually inclining broader towards the fetlock, is not only most unsightly tied in, but is one of the worst faults a racer, or any horse can have; for when the back sinews are thus tied in, the legs are very liable to become crooked, and fail in hard work; besides which, this last description of tying in is, like the small eye, a strong sign of mongrel breeding. A horse that is slight, slight as before described, all the way down, and short between the knee and fetlock, will be quite as strong as one that is broader below the knee, yet longer between the knee and fetlock; but great breadth immediately below the knee, in addition to shortness between the knee and fetlock, is needed to make this part perfect for a racer. An English groom of some experience that I knew, used to say, "Always be mindful of the scientific maxim: when purchasing or betting, if you feel a doubt,

and have an option between two horses, always decide in favour of that one with the largest three essential bones; the hinder bone of the knee, the elbow bone, and the bone at the point of the hock."

The shank, when viewed in front, must look fine, and of small circumference. There is no surer sign of hard work than the shank, when viewed in front, looking round and large. A curb or spavin may come by a strain, but the roundness of shank I here allude to—a thickening of the skin and cellular stuff beneath, quite independent of the bone—is produced by nothing but sheer hard work. Some few blood horses, exceptions, are born rather rounder in the shank-bone itself than others, yet it is bad; and even this roundness in the bone itself is very ugly, and looks like work; but even one whose shank bones are naturally rather round, will become rounder still much sooner than one whose shank bones are naturally flatter. Plenty of muscle above, large back sinews below, but small flat shank bones, solid like ivory, is the blood horse, and horse for endurance or speed.

A splent, if situated about the middle of the shank bone, is of no great harm, save that the price of a horse, if bought for appearance, is

much diminished by the unsightliness of a piece of bone on the side of the leg, a lump there, from its prominent situation, offending the eye more than a large spavin. If found just below the knee, it may interfere with the motion of the joint, and if on the inside, it may be the cause of the speedy cut. If near the suspensory ligament, it also sometimes affects the free action of the leg; and if extending on to the back sinews, it too often causes lameness. In all clean fresh blood legs, there are three different parts distinctly visible: the small, round, flat-looking shank bone, the suspensory ligament, and the back sinews; and these are clearly free from all lumps, and bumps, and bony excrescences whatever; the only natural prominence being the end of the splent bone, about the size of a pea, two inches above the fetlock.

The hair about the sides of the fetlock is sometimes a little ruffled: if you feel carefully, you will probably find he has been slightly fired. At other times the hair will look of a lighter colour; when, if you get him in a proper light, you will probably find he has been blistered. Ask the reason, and you will be told, he was fired for nothing, just as a preventive; or if blistered, merely for fun. Look on these

as screws, and deduct at least seventy per cent. in consequence; for a man who is cruel enough to fire for nothing, or to blister for fun, will not hesitate to palm off on you a bad and patched-up leg.\*

The small scars, or shortened hair from cutting, either behind or at the sides of the fetlocks, are easily seen. If cutting arises from the toes turning too much out, it is, of course, incurable, for "a goose will always go like a goose," and it renders a horse much more unsaleable than a loss of hair from girthgall or sore back, both of which are looked on as most serious objections, as, the hair once off, the spot is so easily galled again, that the horse has frequently to be laid up every other month.

At the inner side of the fetlock, as often

\* Some sporting novices say, a fired leg is worth two others; it never goes. A fired leg, it is true, will often stand training when its fellow fails; the reason is plain: the horse favours the fired leg, and the other one has to stand the extra work; consequently, the good leg goes first, but the bad one has caused it; besides, there is good authority on record, that a leg never moves so freely after having been fired. It is astonishing how much a horse can favour a leg, without its being noticed by ordinary observers; and it has been remarked that ladies' horses generally fail in the near fore-leg first: these dear creatures always must have the horse lead with the off-leg, therefore it does not get its fair share of the stress, though the foot may get more battering.

as the outside, there is sometimes, in the otherwise cleanest legs, an ossification. I have seen this twice passed over by a judge, though it was as large as an acorn : the feel and the difference of appearance of the two fetlocks, on nearly a front view, is sure to distinguish it. Ossifications at the sides of the fetlock, like spavins, are sometimes large, without causing lameness ; but they are invariably productive of some slight stiffness, though not discernible to every eye. If the enlargement is just above the inside of the fetlock, and on the suspensory ligament, lameness will generally quickly ensue on work.

Immediately above, and in front of the fetlocks, there is also frequently seen a kind of dent, the fetlock looking as if there had been too much stress on it ; and so there has been. This may be produced in a slight horse by a single month's riding of too heavy a man, though it will take many months, with rest and bandages, before it resumes its primitive cleanness. When it accompanies the large rounded shank bone, the chances are, he has been long shamefully overweighted, as well as overworked ; and horses in this way, though neither standing with their fetlocks knuckling over, ready to "bite the dust," nor having windgalls, are often more or less groggy, and you run the risk of some latent

internal disorganization about the joints of the foot, which sooner or later will produce one of those lamenesses that "come of themselves." You cannot reasonably expect to dispose of a horse again with these large rounded shank-bones and dents, except as a baggage-horse.

WINDGALLS are a most annoying eye-sore. As unfair or overwork produced them, so they will increase on work. If they are not large, and no roundness of the shank-bone accompanies them, and you are not particular as to appearance, he may be well worth half price: never purchase, however, a horse for the turf, that shows by such evident signs as all these, the combined effects of bad legs, mismanagement, and overwork. To the former sagacious maxim of the three essential bones, my stable acquaintance impressed on me another injunction, which I hand to you, with advice to keep it uppermost in your memory:—"Never fall in love with thick ankles." A fresh horse, he said, like a French danseuse, is always delicately clean at this much-admired part.

## THE PASTERNS, ETC.

From the fetlock to the hoof should be rather long, but not over-slanting: the pasterns of many Arabs, when long, are sometimes too sloping, the fetlock nearly touching the ground. The short pasterns, even, I have seen too oblique; and then, though the limb should be otherwise powerful, the beautiful springy action will be lost in a month by the riding of the least heavy weight; yet, on the other hand, if too upright, the fault is far worse, for the knuckling over will then assuredly soon commence on work, and when it does, he will often evince an evident anxiety to make his nose a substitute for a fifth leg. The pasterns of a horse, for a heavy weight, should be rather short; but for a light rider they can hardly be too long, *provided* they are properly placed. They should look small, round, and smooth; if there is the slightest enlargement, you may suspect a ring-bone.

The easiest and surest way of detecting a ring-bone, is to place a couple of fresh young colts (and they are quickly got at the stables) beside the one you are buying; then feel each all up the centre of the pastern; and also at the side close to the hoof, about two inches from the heel.

If ringbone is formed in either of these places, there will be an evident difference in the feel, which should make you sceptical as to the soundness, for ringbone is not uncommon at the stables among the newly arrived horses, both old and young. There are two ligaments that run down on either side the pastern, and it is the centre of the pasterns between these ligaments\* that will show a fulness and hardness; or, if the ringbone should be at the side of the coronet, about two inches from the heel, you must discover it by the difference, which you will if you search narrowly, first feeling one horse, then another. The centre of the pastern between these ligaments about two inches above the coronet, quite on the seat of ringbone, is sometimes a little swollen, the consequence of having been fastened with a rope there; but this, though common enough among country horses, seldom arises from this cause with Arabs. I knew a cunning fellow, who purchased a new arrival from the boats with one of these swellings on the off fore pastern, which unluckily turning out a ringbone; he cleverly tied a rope round it, so as to take the hair off a little, and searching out his

\* These ligaments, in some flat-shanked, wiry-limbed, clean-pasterned horses, occasionally stand out very prominent, like a piece of thick cord.



cousin, a great connoisseur of country-breds, sold it him for nearly double what he had paid. Be cautious then of your friends, for ringbone often produces no lameness till it spreads on the joint.

## POSITION OF THE LEGS.

The forelegs must stand straight, as you may naturally suppose: you will not be griffin enough to purchase crooked legs. They should look moderately wide at the chest, gradually approaching each other at the fetlock. If they stand fixed wide apart, "pinned," like a horse labouring under inflamed lungs, it is almost as faulty as if they were crooked from the knee downwards; but in the latter case, the knees look a trifle too forward, in consequence of the legs being a little bent backward; he does not in fact stand straight on his forelegs, and therefore you should take the hint here, as well as in the capital crime, the knuckling over of the fetlock joint; for they always become more crooked on work. These unlicensed pins are sometimes defended on the plea of the horse having been born so, but one that was born crooked is surely quite as bad as one that has been worked so. The leg at other times, from the finish of the knee, has a slant

forward instead of backward, the knee appearing too much straightened, bent a little back, calf-kneed. This is a malformation, but never proceeds from work, like the former, neither is it of a hundredth part the consequence; indeed, some persons prefer a slight slant forwards, so as to be sure there is none backwards. If your own eyes are straight, and not askew, you ought, when standing about a yard distant at the side, to discover either of these defects at a glance, however slight they may be.

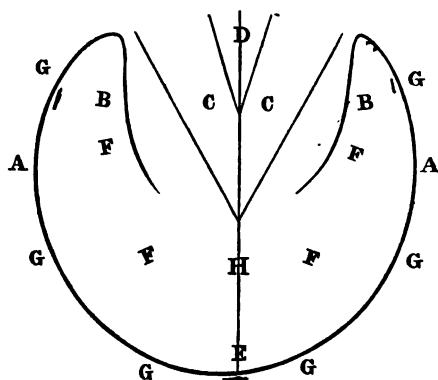
The legs are sometimes bowed, and a bow-legged horse generally dishes, and one that dishes will never run. Dishing action should not be called bad action, but rather floundering, or crooked action: bad action is when the legs are not lifted sufficiently high, nor dropped sufficiently forward.

The feet are not to turn out, nor in: if the former, he will be liable to cut; if the latter, it is equally bad, for the weight either way is most unevenly distributed. The point of the toe should be found exactly under the point of the shoulder: dropping your stick perpendicularly from the point of the shoulder will tell you this in a second, if your eye does not. As much as it is behind that, so much is the weight thrown too much forward; and as in this case the chest will

look either like the chest of a dray-horse—called, a remarkably fine chest; or the legs will slant backward under his belly, which is as bad; so will he be more likely, especially down hill, to fall. This you may likewise naturally suppose; for when standing upright on your own legs, and inclining your head and body forward, a push behind will easily upset you.

## THE FEET.

The hoofs of a genuine Arab are rather small. You will seldom find them too small, *provided* the hinder part of the quarters are the broadest part.



A A, the hinder part of the quarters; B B, the

bars; c c, the frog; d, the cleft; e, the toe; four f's, the sole; six g's, all round, the crust; h, a line drawn across the centre, showing the outside bottom of the hoof, is more circular than the inside. If the hinder part of the quarters is not the broadest part, then the foot was either never perfectly formed, or has become contracted from want of paring, bad shoeing, or disease. If the hinder part of the quarters should be as broad as the forepart of the foot; the frog a good width; the bottom of the foot properly concave; and the hoof in front, from the coronet down to the toe, rather upright, this will be the next most desirable form to choose, for you need not expect to get a perfect foot. If the frog should be small, and the heels much wired or pinched in, you must judge from the firmness with which he brings his heels to the ground whether the wiring-in has made him at all tender: if you think it has, or if you are in doubt, reject him; for this wiring-in proceeding so far as to cause tenderness, which quickly runs on to lameness, is the true chronic founder; and though, by six or eight months' laying up, the heels may probably be opened again, the tenderness will still remain.

Should the foot be small at the coronet, gradually enlarging downwards like a sugar-loaf, it

denotes a weak foot: this kind of foot does not look so bad when lifted up, showing often a fine large frog; but the sole is a little too flat, and the heel a little too low; the horn often too brittle, continually chipping away at the nail-holes; and the crust being thin, it is easily pricked in shoeing. The foot at the coronet, when the horse is standing, should not look small, but nearly as large as it does at the bottom.

If the horn is not smooth, but ruffled, or wrinkled round the crust like an oyster-shell, it is frequently curable, if not very bad; but the foot may possibly have suffered severely from fever, or be one of the natural weak feet. Whether a foot with these inequalities of horn can be safely purchased, must depend upon the strength with which the animal treads, and whether it is properly formed in every other respect; if not, you will do well to reject it; for should there be nothing internally wrong, it will take a long time, even with great care, before the horn will grow down smooth.

The heels of the crust should descend nearly straight to the ground, not slanting and shelving forward: they should run well back to the heels of the frog, or the foot will lengthen out; and all feet which lengthen out, not descending

from the coronet to the toe, as perpendicularly as the angle of  $45^{\circ}$ , are more or less weak. But the most to be dreaded foot is that which, while it gradually inclines to this horizontal shape, has also a slight hollow about midway, either in front or round by the quarters, with the sole flat; such a foot is good for nothing save dissection, notwithstanding the frog should be broad, and the horse at the time not lame: a long and horizontal spine is very fine; but have nothing to do with a long and horizontal foot. The sole, however, is often flat without any lengthening out of the foot, and so thin that it bends like a piece of whalebone. One or two months' gentle riding, is generally all such a foot will stand before it descends quite on a level with the crust. When it sinks lower still, down to the convex pumiced foot, it is, of course, worse; but this is merely like a difference of choice between a wooden leg or crutches.

Do not neglect to see that both feet are exactly the same size, for this is as often heedlessly passed over as the difference in the size of the eyes. The two hind feet must correspond likewise; but not being so liable to contraction, they seldom get out of order. If after all this you are still at a loss to comprehend what constitutes a good foot, keep the heels as open and the

foot as hollow as the hind ones; then you will not be far off the proper form.

White feet are considered objectionable; but recollect, a white foot, properly formed and shaped, is far superior to a black one badly formed, and that white hind feet are not of much consequence.

Examine attentively the warmth of the feet; but this must be done early in the morning, by eight o'clock, before the horse has been exercised, to be of any avail. If one is warm whilst the others are cool, there has been a strain of the coffin-joint, or there is something else wrong internally; but the lameness, in some of these cases, is often so very slight, that you will not discover it till after one or two ridings.

You should observe also, whilst eating grass in his loose stall, if he places one foot stretched out before the other: if he stands decidedly in this position, one foot too much under the body, and the other pointed out nearly a yard in front, you may suspect there is something wrong, either a recent hurt, or, more probably, some old-standing tenderness. A dealer in England will prevent your seeing this, by not placing such a horse in a loose stall; but in India it is generally boldly exhibited; and I once heard the cause equally as boldly accounted for. The buyer asked,

“ what makes him stand in that awkward position, with one leg pointed forward ? ” — “ Oh,” replied the seller, “ that is merely in consequence of the shortness of his neck ; he could not reach his grass easily otherwise : many of the Arabs have short necks.” The innocent victim, who was a native of the Scilly Isles, appeared quite satisfied with this answer, and giving another look at the neck, said, it appeared to his eye of very good proportion, and concluded the bargain. This was one of the worst kind of the long, horizontal, flat-soled feet.\*

\* I have myself had two horses with perfect feet ; one had been shod for two or three years ; the other was a colt, and never shod. The feet of both these were small, but very wide at the heels ; the horn was of the proper depth, neither too high nor too low at this part, and of that fine greyish black, Oxford-mixture colour. Neither of them without shoes, over hard ground, moderately ridden, ever went tender or made a false step.

Some persons, who have paid dearly for purchasing a horse with contracted heels, instead of running into the proper opposite, one with open heels, search for nothing but a large spreading foot ; hence their second bargain is nearly as bad as their first ; for a large spreading foot is almost always a weak and a flat foot : moreover, a large spreading foot is most unfavourable for speed.



## THE TESTICLES, ETC.

Look up at the testicles: they should be small and closely hung up. Swollen testicles are very common, and may prove a considerable drawback to his speed. The testicles, even when not enlarged, are sometimes diseased. I don't know if this can be detected by the feel, or appearance of them, but a horse's value in India is diminished fully one-third by being gelt.

"A small yard in a horse," says the native adage, "is an infallible characteristic of high blood; the foal he gets, will certainly be good." There is more truth in the first part of this sentence than in most of their sayings. As to the latter, it must depend, of course, on the kind of mare he is put to.

If you are purchasing in the highways and byways, you may inspect the vein of the neck, and also the chest, to see if he has been often bled or rowelled (lower the neck to the ground to detect the small swelling from bleeding): these are operations that are generally performed for disease, though the former too often when there is no need for it.

## THE COLOUR.

The best colour for an Arab is the grey, roan, or white,\* and next to this the lighter kind of chestnut, but the former are rightly preferred ; for, caste, bone, shape, freedom from diseases, hardness of constitution, and good feet, are certainly, generally, more conspicuous in something of the grey colour. In the Persian less so, the grey, chestnut, and bay, having the good qualities about equally distributed between them. Some of the Arabs say, the highest caste horses are generally bay, and they ought to know best. I speak of what come to India. "A good horse cannot be of a bad colour;" but there is a great deal of fancy in colour, some *outré* people preferring a dirty white, or dun, piebald, or tiger-marked.

\* A writer from Edinburgh says, "It is a remarkable fact, that an Arabian of a dark grey colour was never known in India as a winner. Bays, chestnuts, and silver greys are always to be depended on. I am, &c. &c. Thos. Brown." This must have been my old friend, Mr. Green, whom I am about to introduce you to, at my last page ; for a letter signed Zeal replies, Mercury, Pyramus, Renegade, Emilius, Bundaola, Sackcloth, and Harmonica, were all iron-greys.

## ARRIVING THIN.

Many of the horses arrive in the boats quite skeletons, and badly hide-bound. You must not be deterred from purchasing these. The head, jaws, channel, nostrils, mouth, lips, eye, and ears; the breadth of the haunches; the straightness of the spine from the fall of the withers to the setting on of the tail; the position of the legs; the three essential bones; the large square knee, wiry suspensory ligament, and clean back sinews; none of these are affected by a horse being thin. The belly may hang like a cow's, the ribs may stick out, the neck may have lost its crest, and the quarters may have sunk down to a frightful hollow: the thigh, stifle, and forearm will, however, yet show a little muscle, if there ever was any; and all that frightful hollow at the quarters will fill up to its proper blood-form in a very few months, if the spine-bone here is only straight, and not drooping; the neck also will regain its crest, and the belly draw up, as the horse gets into condition: but if, added to this thinness, there should be any dropsical-like swelling under the chest or belly, the breath foul, the flanks perceptibly moving with a rise and fall, and the

pulse above fifty, you must consider well the risk you run: it may be only slight fever, or temporary derangement caused by the boat, bad feeding, &c.; but there may be, also, some radically bad disease lurking.

Most horses from the stables cough a little at first, but the whole catalogue of diseases of the lungs and air-passages, excepting chronic cough, are comparatively rare in India. If the cough is very short, like that of an asthmatic person, or very loud and stertorous, either will denote some chronic derangement, and it will be on the safe side to reject him: (I have seldom passed over a valuable horse myself in consequence of this, but merely deducted something for the risk;) and if when one nostril is closed, the breathing is not clear in the other, it will denote an ulcer in this passage, and he should be rejected also. Pinching the windpipe is the only ready mode of exciting a cough, if the walk and trot fail; but all dealers will not stand much of this pinching, for it is very possible to bring on a cough that never existed. It must be the last thing resorted to when purchasing: you should previously make up your mind to take the horse, if satisfied with the sound of the cough.

## MANNER OF GOING.

Having finished your examination, view him in a canter. He should go wide behind\* and close before, skimming the ground with his two fore feet, like a true daisy-cutter; but whether in the gallop, trot, or walk, he must on no account step short; the feet must be lifted with a kind of spring, and brought firm and flat to the ground. There never was a truer passage in a book, than that the safety of a horse depends a great deal more on the manner in which he brings his feet to the ground than on that in which he lifts them up.

You should not conclude your bargain yet, till you have mounted. The dealers, if you are a light weight, will always allow you a five minutes' walk, trot, and canter, in front of the stables, and that is as much as any man ought to ask, or get. If the fore feet are not lifted light, quick, and airy, but feel to stick or dwell long on the ground, he has been overweighted, and his action ruined, or there is something wrong in the chest, or feet.

\* If the hocks turn out, and the toes turn in, described under hocks as most faulty make, he will of course go wide with his hocks; that is, if he goes at all, which is doubtful: but hang such wide-going as this!

## PRICE.

If you are now purchasing for the turf, you will pay from eight to fifteen hundred rupees, according to age, caste, shape, &c., and your own knowledge of making a bargain. You should never exceed fifteen hundred for an untried horse, however promising he may look. Many of the best racers on this side of India, that were not particularly handsome, or if handsome, not high, have been bought by judges, and some by luck, for there is a great deal of that, for from six to twelve hundred.

If you are purchasing for the parade, and get all the points described under the following head of Charger, with fine high action, fourteen hands two inches high, high caste, handsome, and stylish, four or five years old, and perfectly fresh and unblemished, you get him cheap at fifteen hundred. I should be happy to obtain such a one for that sum, even if he were slight.

If you are not so very particular, and can excuse an ugly head, a small eye, a filled up narrow channel, a bent fore-leg, a small hock, a drooping quarter, a straight shoulder, a bad neck, indifferent action, or any other defect, you ought to suit

yourself from eight hundred to a thousand ; and if you can excuse blood, or take a Persian with one or two of these defects, you will have no difficulty in procuring it for five hundred.

If you go still further down, and take a screw of high caste appearance, with a gummy leg, a blind eye, a wapping spavin, a neatly fired ring-bone, or a foundered foot, there are plenty to be had for two hundred, though they are often priced at two thousand, in the hopes of your making an offer. You will find, however, many of tolerable good caste and make, five years old, fresh and free of wind-galls, fourteen hands high, well adapted for hunting, from four to seven hundred rupees, but you cannot expect a fresh sound horse of height, caste, and appearance, for so small a sum.

The price of a high caste, well built, fresh Arab, of five years old, is enormously increased by a little height ; for every inch you will have to pay five hundred rupees. If fourteen hands one inch of this description can be bought for one thousand rupees, fourteen hands two inches, with the same qualifications *in every respect*, would be fifteen hundred rupees ; fourteen hands three inches with ditto, would be two thousand rupees. And the increased height is well worth the extra money ; for a large high caste, fault-

lessly formed, and fresh Arab of this age, is as difficult to find as a large diamond.

Two horses, very nearly resembling each other, may be very differently priced: take for instance, two of valuable caste and build, one having rather a straight shoulder, the other an oblique one; or one rather a thick neck, the other a light one; the latter, all other points equal, would for the saddle be worth fully double the former. So also a blemish, though not detracting from the actual utility, will often reduce a handsome horse from fifteen hundred rupees down to one thousand rupees; in the same manner as a dab of grease or paint will ruin the value of a dress-coat: the coat may be still as useful, but not for appearance.

Recollect, a horse's price is not according to the vulgar error, "what he'll fetch," for many a ruined horse, with a good name, often fetches more than his original worth, when fresh; and *vice versa*; but the real intrinsic value of a horse consists in what you would have on a fair average to pay for such another, as good and unblemished in every respect, in the country in which you may be.



## ADVICE.

Notwithstanding my endeavours to put the foregoing before you clearly and simply, I much fear, five or six days after your purchase, you will discover you have overpaid some twenty or thirty per cent. The brass, and plausibility of some rogues, in selling a deformed, useless, or diseased animal is incredible. If made like a cow, and showing the ill-breeding of a country horse, they will name to you some known good running Arab that had an ugly exterior, which is nothing at all to the purpose. A horse in his *tout ensemble* will often have an ugly appearance, and yet evidently show blood, and possess most of the best running points; one, however, whether handsome or ugly, that does not possess them, will never be a first-rate. If the legs are crooked, or the feet long, another runner will be named that had these faults, and they will affirm positively, it was in consequence of these defects, not in spite of them, and from their other very superior qualities that they happened to run well. If the shank is as large and round as a pint bottle, they will put their hand down to demonstrate to you the circumference, saying, "There 's strength of limb!" A bunged, windgalled leg will become clean and

wiry; a bull-neck will fine away; a herring-gut will turn into a beautiful barrel; a heavy shoulder into a light one; and a contracted and long foot will both open and shorten, when he is properly shod; in short, a brute will in a month be perfection, if you will only hand over your rupees. All this spluttering balderdash proves, either that they know nothing at all about a horse, or else that they are trying to deceive you: the former is the most charitable supposition, and, no doubt, the correct one, though a very large share of the latter is always mixed up with it. When, therefore, you hear arguments so truly nonsensical, and thinly-veiled as these, the sooner you unfold your knowledge of human nature, if you have none of a horse's, the richer you will find yourself in pocket.

Another deceptive mode of talking, shallow enough certainly, but peculiar to the Bomb Proof, is in this way:—When the stride is found shortened and clumsy, from having been overweighted by riding or carrying heavy burdens—a very common occurrence—the answer is, “Oh, that was done in Arabia;” or, “he was always so.” Well, if overweighted in Arabia when he was young, and the action injured in consequence, the chances are a hundred to one against his ever recovering it, unless a very powerful horse, and always after

ridden by a light weight of seven or eight stone : and if he was by nature always so, why, then of course, it is incurable. When the eyes are dim, or cataracts forming : “ Oh ! that’s only from the heat of the stables.” When the legs are injured, and the back sinews all bowed : “ Oh ! that’s only from the heel-ropes, or a tent-peg :” just as if it made any difference to the purchaser whether the eyesight was injured by the heat of the stables or a pitchfork ; or the legs ruined by a tent-peg, or a sledge-hammer. Again, if a colt is produced that is badly formed : “ Oh ! he’s only a colt, he’ll alter in another year.” To be sure, all colts alter, but if he is well-formed at three years old, he will be well-formed at twenty ; and if badly formed, and want of due proportion at three years old, he will be the same as long as he lives. Now, unless you have been educated at Doncaster, or dubbed yourself a judge, self-constituted, as I have done, I strongly recommend, especially if you are a New Arrival, and have any regard for “ your order,” (letter of credit, I mean,) to ask some friend to accompany you in your rambles through these stables. Should you purchase from “ gentlemen judges,” the only chance of escape you have, is candidly to confess that you are only in the elementary instructions of the “ Griffin’s Aid-de-Camp,” and then it would be ungenerous

and unfair indeed to deceive and take advantage of you ; but if you are a judge, (a question I always like to ask, if I can do so without giving offence,) then you have no right to complain of being outwitted : you dubbed yourself ; the more shame for you to acknowledge being so quickly dismounted.

Remember, however, that though a good Arab may be found without all the points I have described, a bad Arab will never be found with them ; and also, that a horse may be of the highest caste, and yet have no great speed, in consequence of some faultiness of build, or being more adapted for the purposes of parade. A charger, racer, and carriage-horse, cannot be all of perfect build in one and the same skin : you cannot expect to obtain all these qualities in one horse, though they are much more nearly procurable in the Arab than the English breed. A draught horse seldom makes a good riding horse ; you must make up your mind what you want, and be thankful if you get it.

For any purpose except the turf, always choose make before blood. A three-part bred Arab, of the proper form, will be preferable for either charger or hunter, to better caste faultily built ; and for the carriage, half-bred, if well made, will also be better than more blood with less

shape. An unexceptionably formed Persian or half-bred, will always bring a fair price; but a well bred, if faultily formed or deficient in appearance, will often be objected to, unless he has speed.\* Yet, let no man presume to quote from my book who has not well learnt by heart

## THE GRIFFIN'S CATECHISM.

What gives a horse endurance?—Blood.

What gives a horse speed?—Ditto.

What gives a horse beauty and symmetry?—  
Ditto.

What gives a horse a thin skin?—Ditto.

What gives a horse a straight croup?—Ditto.

What gives a horse large thighs?—Ditto.

What gives a horse a well-formed large hock?  
—Ditto.

What gives a horse a light neck?—Ditto.

What gives a horse a large eye?—Ditto.

What gives a horse a wide jowl?—Ditto.

What gives a horse a thin open nostril?—Ditto.

\* Of late years, many horses with an English caste about them have found their way into the stables, and are called Arabs when well built, with a fine quarter, open jowl, and large eye; and Persian when otherwise. The opinion seems to be, they are Arabs, or Persians, or some mixed Eastern breed; but some few certainly look as if they had a dash of English blood in their veins.

What gives a horse a deep chest?—Blood.

What gives a horse a fine forearm?—Ditto.

What gives a horse a flat shank-bone?—Ditto.

What gives a horse a wiry limb, and large back sinews?—Ditto.

What is the real meaning of blood?—Blood.

Blood is shown in Premier and Perfection, pp. 72 and 73; Half-bred, in Water Proof, p. 73; and No Blood, in the Frontispiece. If you are so dull of comprehension that you cannot understand the meaning of it from all these drawings, assisted by all the foregoing explanation, confine yourself to a tattoo or screw; you were never born to display Perfection.

To decide upon the exact quantity of breeding every individual horse may possess, is another affair. The numerous shades of difference from the lowest caste up through the half and three-quarter bred to the highest caste, complicated as they are rendered by a greater or less degree of good and indifferent build attached to each, makes that impossible; it can only be known to a certainty by the breeder, where the pedigrees have been accurately noted down from generation to generation; and in India, so long as all pedigrees are taken upon trust, these intermediate shades of distinction must always remain a matter of opinion; but I do not hesi-

tate to say, that if you are unbiassed, one month's study and reflection of the first part of this book will, as far as this blood or caste, and the build are concerned, enable you to purchase for yourself without disappointment.

A high-caste Arab, for a Racer, Charger, or Hunter, should therefore possess the following points :

## RACER.

Long quarter ; straight spine ; well set-on tail, and not too bushy.

Broad across the haunch-bones, but broader at the thighs.

Large and muscular stifle.

Large and broad lean hock, with the bone at the point long.

Lean head ; broad forehead ; large, full, bright eye ; open thin nostril ; deep mouth ; evenly-closed lips ; wide jaws ; clean channel ; and small erect ears.

Neck, rather long and light.

Withers, whether high or low, should rise above the top of the shoulder-blade.

Back, straight, and rather long.

Long and slanting shoulder.

Short arm, and legs well forward.

Moderately broad and flat chest.

Great depth of girth.

Some distance between the last false rib and the haunch-bone.

Round barreled carcass.

Large elbow-bone.

Long and muscular forearm, that there may be shortness between the knee and fetlock.

Broad square knee and large hinder bone.

Suspensory ligament and back sinews strong, wiry, and far apart.

Shank-bone flat ; small round in front.

Pasterns long, but not too oblique. The point of the toe under the point of the shoulder.

Sound, well-shaped, black fore-feet ; rather upright in front of the crust ; never lengthening out more than the angle of forty-five degrees ; open heels ; sound frog ; and a concave sole.

#### CHARGER.

Long quarter ; straight spine ; well set-on tail, and not too bushy ; but, for a handsome charger, the tail should be carried rather high also.

Broad across the haunch-bones, but broader at the thighs.

Large and muscular stifle.

Large and broad lean hock, with the bone at the point long.

Lean head ; broad forehead ; large, full, bright eye ; open thin nostril ; deep mouth ; evenly-



closed lips ; wide jaws ; clean channel ; and small erect ears.

Neck rather long and light ; but a fine crest, and well-carried head, are indispensable.

Withers should be high for a charger.

Back must not be too long, or he will never pull up properly on his haunches, without which he cannot be a good charger.

Long and slanting shoulder ; but it should have a little more substance than the racer's, so that, with high withers, added to a good girth and fine chest, the saddle may keep back in its place ; for the charger that does not carry his saddle well is a nuisance.

Short arm, and legs well forward.

Moderately broad and flat chest.

Depth of girth not actually requisite to the same extent as in the racer. A good caste Arab is never very deficient in this.

Not much distance between the last false rib and the haunch-bone. A charger should be well ribbed home. Being well "coupled up" is a sign of strength and endurance.

Round barreled carcase.

Large elbow bone.

Forearm quite as muscular as the racer, but no harm if there is a trifle more length between the knee and fetlock, for a charger must lift

his fore-feet well up, and not move like a daisy-cutter, or over stony ground he will soon come head over heels.

Broad square knee, and large hinder bone.

Suspensory ligament and back sinews strong, wiry, and far apart.

Shank-bone flat, small round in front.

Pasterns should not be so long, nor quite so oblique as the racer's. The point of the toe in its proper place is most essential.

Sound, well-shaped, black fore-feet; rather upright in front of the crust; never lengthening out more than the angle of forty-five degrees; open heels; sound frog; and a concave sole, are indispensable. A racer on soft turf might get on better with an indifferent shaped foot: have any fault in preference to an indifferent one for a charger. A bad foot can be worth nothing to either.

#### HUNTER.

The nearer he comes to the description of a Charger the better. There is no necessity for his being so high or so handsome. Hog-hunters generally prefer small horses. Great strength, however, in all his limbs, with a moderately broad and flat chest, and circular carcase, is essential.

The neck must have the curve where the

head is set on; the mouth deep, and the jaws wide, that he may be light in hand.

The back should be short (yet not a too short horse), but the spine straight.

The withers must be as high, and the shoulder as slanting, with as much substance (not thick and cloddy) as the charger's. These two points, with a fine chest, are most requisite, both in the charger and hunter, that the saddle may be carried in its proper place. The charger is always kicking, and his tail becoming galled by the crupper, when the saddle presses forward, and the hunter, in a leap, not having a crupper, may have the saddle and rider thrown on the withers, and fall topsy-turvy in consequence.

The distance between the knee and fetlock need not be so short as in the racer; for the hunter (though not required to have the high action of a charger) must lift his legs well. This is a point, however, that is seldom found too short, and in a racer never.

As high caste and excellence of build can very seldom be obtained, and quite as seldom afforded, attend,

In the Hunter, first to the fore parts: the well set-on head and neck, slanting shoulders, well placed fore legs, and good, open, tough feet.

In the Racer, first to the caste and the hind parts.

In the Charger, as you value your neck and comfort, attend to every part. Money here is well laid out: he should be faultless: his name Perfection, and his motto, *Fier, mais sensible*.

The annexed drawings will serve as a good index to the foregoing description. The second is a beautiful model of the proper form of a Light Dragoon Charger, and an excellent cut as a general runner of all races. The Racer and Hunter may look very different to the same class of horse in England; but though the points should be the same, the Arab, in consequence of his stature, which in some of the best runners has not exceeded fourteen hands one and a half inch, and from his having inherited nothing but his native blood, assumes a very different appearance.

A cavalry horse must partake of something of this second form; for a charger with a long back and straight shoulder, that cannot be brought on his haunches, is as ridiculous as a racer with a bull-neck and a camel's hind quarter, that cannot be got into a gallop; both being about as useful to answer their trades as a Newmarket carrier-pigeon without wings; and yet, such are continually purchased by Mr. Green and his brother; and the former not unfrequently sent to the light cavalry. Another description chosen for troopers,

is the low Persian, or Gulph horse, often without any breeding at all, sometimes having a roach back, and consequently deformed quarter, drooping to the elegant angle of fifty degrees; such a brute can neither be useful nor ornamental for any purpose. A half-bred Arab, or well-formed Gulph horse, of fourteen hands one inch high, may do very well as a charger for a light weight of eight stone; but a good Kattywar, with his handsome crest and high action, is worth a hundred Gulph fourteen hands one inch tattoos. Size, strength, and activity, with fresh strong legs, tough feet, and open heels, are the grand desiderata for the cavalry.

Breeding the cavalry horse is foreign to my present purpose, but no man should be entrusted to pair horses and mares, until he understands something of the proper build of both, and is also fully aware of the undoubted truism, that "Like will produce like." The keeping a bad horse costs the Honourable Company's government quite as much as a good one, indeed, more; for the curious-shaped animals that are sometimes sent as colts for troopers take five times as long to break in as proper formed ones would; and even then, they are always laming themselves, or annoying their riders. There is no more difficulty in breeding good shaped horses than bad

ones, if the breeder has only a little knowledge how to pair : blood is not required ; half to three parts bred is abundance of blood, but make is indispensable. Some few *lusus naturæ*, under the most scientific management, will, of course, be thrown ; it is beyond the power of man to prevent these occasional freaks of nature ; but nine times out of ten, if the horse and mare are adapted to each other, four-fifths at least of the good form and good qualities will be inherited. A bull-neck will run through a dozen generations, and a stallion with a bull-neck should never be bred from. A thick neck, in an otherwise fine horse, may be bred from solely for draught for the artillery, but a downright bull-neck should be shot. A straight-shouldered stallion, if otherwise good, may be bred from, for straight shoulders are required for draught ; and if the shoulder has only good depth, and crossed with an oblique-shouldered mare, this point may occasionally alter sufficiently for the cavalry ; but not so certainly as if the obliquity was on the side of the stallion. A wall-sided stallion, if not very flatsided, and otherwise good, may be bred from, for if put to a well circular-barreled mare, the carcase will always improve : the Godolphin Arabian was wall-sided. A drooping hind-quarter, if only muscular, may be bred from, for if crossed with

a straight-crouped mare the quarter will never be bad. No small carcased, or narrow-chested, or lanky-thighed horse or mare should be bred from; and no horse or mare with a very long back, or badly set-on head should be bred from: I am speaking as to breeding for the cavalry. Regarding the head itself, I should not care what it was like: the less brains a troop-horse has the better; but I would not breed from a stallion with a small eye, neither would I ever breed from one with a very large yard. Every stallion must have harmony of proportion united to general substance, and never be overladen at the top of the shoulder blade-bone; and every brood-mare must also possess these qualifications, besides being particularly broad in the haunches. Another great error that is committed, is in the difference of the size of the horse and mare. Not more than an inch and a half difference in the height should ever be allowed, and even that is too much, unless the manager has proper discrimination with regard to the form: for instance, put a very fine, substantial, well-built stallion of fifteen hands to a rather slight but yet well-formed mare of fourteen hands two inches and a half; the chances here, with make on both sides, are ten times as much against a symmetrical produce as if the height had been the other way, and a very fine,

substantial, well-built stallion of fourteen hands two and a half inches had been put to a rather slight but yet well-formed mare of fifteen hands: these last may, with some little propriety, be termed nearly even-sized horses. The only true method of increasing the size of the Indian horse, and at the same time insuring symmetry, is never to allow more than an inch and a half difference in the height, and only that under the restrictions just mentioned. An indifferent point in the stallion must also always be met by a very superior one in the mare, and *vice versa*; but the cardinal points of both must be perfect, or there will be no improvement in the breed worth speaking of. This is attended with no difficulty, and very little expense, when choosing half and three parts bred horses. There are hundred to be had: good feeding and proper care of the colts and fillies would then in a very short time amply repay an establishment. English, Arab, and Kattywar horses and mares, judiciously chosen and crossed, would, in five generations, or thirty years, yield a breed that would pay a hundred per cent.; but when a huge, faulty stallion, whether thorough-bred, passing for thorough-bred, or half-bred, is put to a coarse, country, drooping-quartered, and perhaps crooked-legged mare, and this mare two



or three inches smaller than the stallion,\* what can be expected? It would be contrary to nature to find a good produce.

A half, or three parts bred horse, may often be found with all the good points of a thorough-bred, save three or four, and the want of these three or four shall indubitably prove him no thorough-bred. In lieu of the large brilliant eye, thin skin, small, flat shank-bone, and large back sinews, substitute a smaller eye, a thicker skin, a larger, round shank-bone, and small tied-in back-sinews; who will then believe him thorough-bred? Or, to take other points, in lieu of the clean, wide jowl, thin open nostril, deep mouth, and large muscular hind quarters, substitute a closed fleshy jowl, a thick shut nostril, a heavy-lipped mouth, and hind quarters, deficient of thigh muscle; and who will then believe him thorough-bred? With faults like these, he must gallop a mile and a half in very good time before you will obtain thorough-bred price. Even one single faulty point will frequently enable a good judge to detect a flaw in the blood. And this brings me to a question I

\* Professor Coleman stated in his lectures (I have not seen it in print), that trying to increase the size of the Indian horses by crossing with the large English stallions was ruination to the breed, and that no well-proportioned foals could be expected.

have often heard mooted. When two horses are brought out and sold, each showing externally every point of thorough breeding and good build in exact equal proportion, and both of equal energy and equal supposed good constitution, how is it that one turns out far superior to the other, and how is it to be distinguished? To distinguish at the time of purchase between two so exactly equal is impossible; but supposing every point was allowed by the best judges to be exactly equal, and we could positively know that the constitutions of each were exactly equally good and strong, still, in India we are ignorant of their blood—of their line of descent: and even if we knew that as correctly as they do in England, still the solution of the question is impossible; but there may exist a closeness of fibre about the one, and a finer cementing together of the different parts of the frame, which scientific dissection might detect. The living proof in these cases, although we must wait a short time for it, is nevertheless a true proof, viz., the greater speed and *endurance* shown on the turf after each has had six months of proper training. Where you have the running build, and every other external visible point in equal good proportion, and the training, riding, &c., equally good, then the turf, and the turf alone, furnishes the only

living proof of the better blood, and this blood, this latent energy for work, is comprehended with very good accuracy by persons who unite experience to a knowledge of the structure of the horse.

Another abstruse question is, why this superior blood loses itself in a greater ratio when crossed with inferior blood in good build, than with good blood in inferior build, when build itself is one of the best proofs of good blood? This does hold true, but only to a certain extent: that highly-finished interior mechanism of some internal parts, in whatever it may consist, does, beyond a doubt, in many horses with external indifferent conformation, excel in point of endurance that of inferior blood in a better external conformation. But some parts of external conformation denote blood more than others; for instance, take one horse with every point perfect, and then change his large brilliant eye to a small one; take another with every point perfect, and then change his straight forelegs to crooked ones, or make the chest too narrow: the former proves more a loss of blood, the latter more that of build; and the odds would be three to one in favour of the latter for a race. All these little minutiae are of material consequence to breeders of horses, or men on the turf; but practice, added

to study, and the possession of a good "eye for a horse," can alone give them. As beginners; do not devote too much time to any speculative points, but first pay attention and learn the *externals*: the foal with any bad blood, will, to a certainty, when grown up, show some external visible flaw, such as a small eye, thick closed nostril, bad ear, small back sinews, &c., or very probably three or four of these. The points that denote pure caste, or thorough blood of long descent, are given at p. 8, together with the other requisites that enable a horse to gallop; but every good point therein enumerated is rarely attainable.

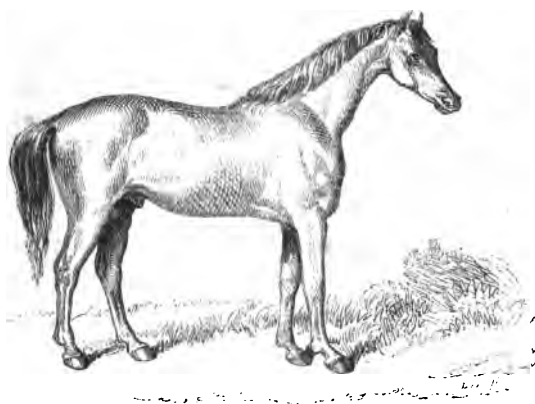
PREMIER.



PERFECTION.  
"Fier, mais sensible."

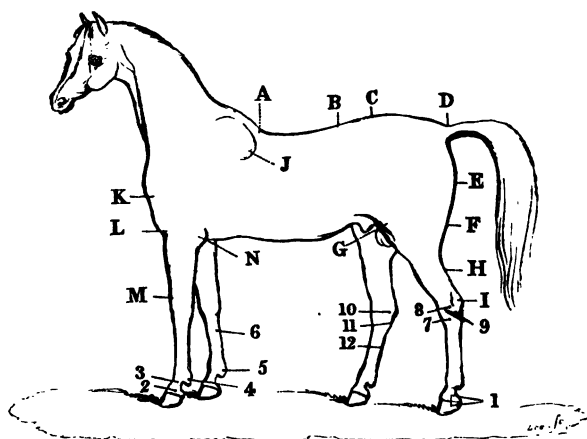


WATER PROOF.



## OUTLINE,

Showing different parts of the horse, also the seat of diseases.



A to B, the back ; B to C, the loins ; C to D, the croup ; C to E, the quarter ; E to F, the thigh ; G, the stifle-joint ; G to H, all that below the stifle ; C to H, taking in the thigh, stifle, and all that below it, is sometimes called the whole quarter ; I, the bone at the point of the hock ; J, the shoulder-blade bone ; K, the point of the shoulder ; K to L, the arm ; L to M, the fore-arm ; N, the elbow-bone.

1, the place of the side, or lateral cartilages ; when they ossify they lose their springy feel, and become hard as granite ; they are then called side-bones ; by some, ringbones ; 2, the seat of ringbone in front, just above the coronet, seen in the fore as often as the hind pasterns ; 3, the place enlarged, from being tied round the pasterns, close on the seat of ringbone ; 4, the place often seen ossified on the outside of the pastern ; 5, the place often seen ossified on the inside of the pastern ; 6, the place that enlarges from sprain of the back sinews ; 7, the seat of bone-spavin on the inner side of the lowermost part of the hock ; 8, the seat of bone-spavin, a little higher up, and more towards the back part of the hock ; 9, the seat of bog-spavin ; 10, the seat of thorough-pin ; 11, the seat of curb ; 12, the place that enlarges from sprain of the back-sinews of the hind leg, seldom met with.

## PART II.

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### THE AGE.

THE teeth are forty in number: twenty-four grinders, or double teeth; twelve nippers, or single teeth; and four tushes.

### THE COLT'S GRINDERS.

The colt, at his birth, has eight colt's grinders, four above, and four below; that is, two above and two below, on each side of his mouth.

At a month old he has four more colt's grinders, two above and two below; that is, one more above and one more below, on each side of his mouth.

These are subsequently shed, in the same order as the nippers.

At one year old four more grinders come,

two above and two below ; that is, one more above and one more below, on each side of his mouth.—Not shed.

At a little before two years old four more grinders come, two above and two below ; that is, one more above and one more below, on each side of his mouth.—Not shed.

At about four years old four more grinders come, two above and two below ; that is, one more above and one more below, on each side of his mouth.—Not shed.

*Change of the Colt's Grinders for Horse Grinders.*—At two years and a half old four colt's grinders fall out, one above and one below, on each side of his mouth, and four horse grinders come in their stead.

At three years and a half old four more colt's grinders fall out, one above and one below, on each side of his mouth, and four more horse grinders come in their stead.

At four years and a half old four more colt's grinders fall out, one above and one below, on each side of his mouth, and four more horse grinders come in their stead.



## THE COLT'S NIPPERS.

The colt, at his birth sometimes, but always at a fortnight old, has four front colt's nippers, two above and two below, in the front of his mouth.

At a month and a half old, he has four middle colt's nippers, two above and two below, one on each side of each front nipper.

At eight or ten months old, he has four corner colt's nippers, two above and two below, one on each side of each middle nipper.

*Change of the Colt's Nippers for Horse Nippers.*—At two years and a half old, the four front colt's nippers fall out, and four front horse nippers come in their stead. When they are well up, he is three.

At three years and a half old, the four middle colt's nippers fall out, and four middle horse nippers come in their stead. When they are well up, he is four.

At four years and a half old, the four corner colt's nippers fall out, and four corner horse nippers come in their stead. When they are well up, he is five.

These colt's nippers take about four months

falling out, commencing two months before the half year, and finishing two months after it. From the day the last corner nipper falls out the colt becomes a horse, and the filly a mare.

#### THE TUSHES.

At three years and a half old to four years and a half old, the four tushes come, two above and two below; that is, one above and one below on each side of his mouth, and never change.

The mare has seldom any tushes.

#### MARKS THAT SHOW THE AGE.

At six years old, the marks in the two front horse nippers in the lower jaw are worn out.

At seven years old, the marks in the two middle horse nippers in the lower jaw are worn out.

At eight years old, the marks in the two corner horse nippers in the lower jaw are worn out.

## REMARKS.

As the teeth of horses grow very differently, and the marks are retained much longer in some than in others, it requires a little careful inspection of a few different mouths to enable you to decide at all correctly. The common rule of concluding that a horse is six, when the marks in the two front horse nippers in the lower jaw are worn out; that he is seven, when the marks in the two middle horse nippers in the lower jaw are worn out; that he is eight, when the marks in the two corner horse nippers in the lower jaw are worn out, will occasionally deceive you, if taken solely as a guide; for a horse that is always fed on dry grain and dry grass, wears out the marks quicker than one that is always fed on soft grain and green grass. The groove in the inside of the tushes that gradually fills up as he advances in years, varies so much in different horses, that it is no better a guide; for in some colts they come before three and a half years old, and in others not till after four and a half: in some horses they are very little blunted at the points at twelve, and in others they are blunted at eight. The length of the teeth is no surer a test, for

they are sometimes found short at twelve, and long at ten.

If a horse that is known to be ten or eleven years old, has the marks remaining in the two corner horse nippers in the lower jaw, it is sometimes concluded from this that he has been bishoped. If at this age the tushes should happen to be sharp at the points, and the teeth also short, like a young horse, it no doubt would be a good opportunity to endeavour to deceive us by bishoping a couple of marks in these two corner horse nippers, if they should be worn out; but the stain on such a tooth, somewhat similar to that burnt on the bone handle of a knife to give it the resemblance of tortoise-shell, will often expose the cheat of itself. A little round hole, made with a pointed iron, as well as the mark of a file, with occasionally a very small particle of the outer side of the tooth chipped off, is sometimes distinguishable at one of the "on my honour" stables\* at Bombay. I have, however, seen a troop horse of eleven years old with the marks remaining in the corner horse nippers, the tushes rather sharp, and the teeth rather short, giving to him the appearance of a seven-year old horse; but the teeth were not quite so straight down in

\* Figging is also very common here.

the mouth as they ought to have been; they projected a little obliquely forward, and they were very yellow: this furnishes a better criterion in these doubtful mouths.

To discover the age, therefore, examine carefully, first, the marks in the teeth; secondly, if the tushes are small and sharp, or grown round and dumpy; thirdly, the length of the teeth; and, lastly, the position and colour of the teeth.

Up to six years old, there is not much difficulty in deciding; and from six until eight, if you balance all these four rules, not taking the marks solely as a guide, you will generally tell within six months. After eight, it is all guess; yet, when the tush is round and blunted, and the marks in the two upper front nippers are gone, you may conclude he is turned of nine, though marks should remain in the lower jaw; but the upper front nippers are, nowadays, also sometimes bishoped, and I have seen a horse of sixteen sold for a seven-year old. At ten, the marks in the two front horse-nippers in the upper jaw; at twelve, the marks in the two middle horse-nippers in the upper jaw; and at fourteen, the marks in the two corner horse-nippers in the upper jaw will sometimes, at these respective ages, also wear out regularly; though these cannot be depended on like the lower jaw: but a

horse whose teeth are at all long, and at the same time yellow, and projecting a little obliquely forward, you may be sure is no chicken. At ten years old, the lower horse-nippers also begin to lose their oblong shape, so that at fifteen they are nearly triangular from the front of the mouth backward. (*See sketches below.*)



As a horse grows old, the pit above the eye deepens; but this will also be found sunken in one that is much emaciated, and it is thought to be observable in those that have been got by old stallions.

The comparative ages between horse and man have been estimated at about the following comparison: one year of the horse to every four of man being reckoned from the age of two up to that of ten, and after that less. Thus,

A horse at 2 years is as a boy of 8 years.

„	3	as	12.
„	4	as	16.
„	5	as a man of	20.
„	6	as	24.
„	7	as	28.
„	8	as	32.

A horse at 9 years is as a man of 36 years.

„	10	as	40.
„	15	as	50.
„	20	as	60.
„	25	as	70.
„	30	as	80.
„	35	as	90.

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## THE PULSE.

It really is unpardonable in some freshmen taking on themselves to decide on the complaint of a horse, and then recommending a treatment for him, without ever feeling the pulse. It is cruel to abuse, and half destroy a horse's constitution, in the dark, in this way. There can be no difficulty in "catching" the pulse, if you put your two forefingers under the upper part of the lower jaw, and press the artery very gently against the bone. If the channel is not clean, but much filled up and fleshy, a hard pulse may feel softer than it actually is; but taking out your watch will always tell you if it is too quick; and, after feeling one or two horses under disease, you may be able in some degree to allow for this thickness of skin and flesh.

Thirty-five to near forty is the standard pulse (young colts two or three quicker); and when it beats about this number in the minute, going off with a full bounding feel, it is the pulse of strong health in a strong constitution. Forty-five is too quick; thirty, too slow. When the pulse is under forty-five, there can be no active inflammation that will not quickly show itself.

When it is weak and not full, it bespeaks more or less of debility, according to other symptoms that may be present.

When it rises to sixty, there may be fever, or some local inflammation, according as other symptoms are present.

When at the number of seventy, or eighty, or more, it is hard, and yet small and wiry. It denotes inflammation of the bowels, if the other symptoms are present.

When it is oppressed and indistinct, feeling as if there was too much blood in the artery, it denotes inflammation of the lungs, if the other symptoms are present.

When the pulse is irregular or intermittent, stopping a second, then going on again, it denotes great danger under disease, if other bad symptoms are present. The intermittent pulse is sometimes produced intentionally, by giving digitalis, or other poisonous medicines.



## BLEEDING

should never be resorted to till the disease is clearly ascertained.

When you bleed from the neck vein, the first six inches near the head must not be punctured, nor lower down in the neck than a foot. Any spot between six and twelve inches will do. The vein branches off about six inches below the jaw, and the best spot for bleeding is two inches below that.

If you have never bled a horse before, or the vein does not show sufficiently full, smooth it down and press upon it below with the fingers, then tie the cord round the neck and lay the fleam along the course of the vein, never cross-ways, gently fixing it without penetrating the skin. Having blindfolded him, do not shut your eyes and jerk the fleam when you strike, like a boy pulling the trigger of a gun, or you have no more chance of hitting the vein than he has the bird; but, keeping your eyes fixed on the fleam, give it a sharp but not a severe knock with a blood-stick or tent-peg.

Some people cannot bleed, which is unfortunate in case of inflammation. Perhaps you may be more successful with a lancet. Having first

tied a piece of cloth round the bottom, or holding it tight between your forefinger and thumb, that it may not go in deeper than the fleam would, insert the point gently into the vein, and ram it in a little upwards, so as to make an orifice full half an inch in length.

The beauty, and the great effect, of bleeding a horse in the neck vein, particularly under inflammation, consists in taking a large quantity of blood in a short time; therefore both veins in these cases should be opened at once, and the larger orifice the fleam makes the better. No fleams from Mr. Long, or any good maker, are made too broad-shouldered; if made too deep, the artery underneath may be penetrated, and the horse lost. Having got the quantity of blood you want, do not let the flow stop quite suddenly, or air may get into the vein and half kill him; but loosen the cord, if one has been on, gradually; then close the wound immediately, and that without pulling the skin from the neck, by which blood is apt to get underneath and cause a bad swelling; pin the two edges together, taking care not to include any of the hair between the lips of the wound, with the smallest possible pin, or needle, which is better, not an inch and a half skewer; and do not forget to tie the head up for an hour, and to see

that he does not rub the part afterwards, or inflammation and loss of the vein may follow. The pin should be gently drawn out two days after, first cutting the horse-hair or thread tied round it with a pair of scissors. If the blood does not flow sufficiently free and quick, keep his mouth in motion by putting your fingers in at the corners, and throw hot water over the loins, if needed, or put a sheepskin or half-a-dozen jhools over them.

Take care that your fleam and lancet are clean, and not rusty, and always ascertain how much the koondee holds that is to receive the blood, or you may take away a gallon and a half for a gallon, which I have often seen done.

The blood should fall in a stream into the middle of the koondee, or nothing can be judged from the colour of it afterwards; and it must rest undisturbed in the shade for half an hour, which is about the time it takes to coagulate. The appearance, however, the blood puts on after its coagulation, and the coagulation being slow or quick, is so exceedingly complicated an affair, and influenced by so many causes, that no criterion as to the degree of inflammation can be gained by it, at least by us; the great thickness of the buffy or sizy coat at top being present in a state of health as well as under disease; and

often none at all existing, though the blood may be darker, when the inflammation is greatest. When, however, the blood has become solid, after being drawn in a full stream, and is found with or without this sizzly coat, yet at the same time thin or watery, it will, perhaps, more correctly denote that it ought not to have been taken. When bleeding is necessary, you will find it under the proper head; so, if you take on yourself to bleed for imaginary purposes, you deserve to suffer for it.

In taking a large quantity of blood from a horse labouring under any inflammation, always take care there is a good soft bedding in case he should faint. The pulse will first falter; and he will generally begin to droop and stagger a few seconds before he falls, which, of course, must be the signal to desist, and then ease him down gently, if possible. The faintness will go off in a few minutes; but he must be left to rise at his own pleasure.

Bleeding from the forearm vein, inside the forearm, and from the thigh vein above the hock, should be done with the lancet, it not being driven in so far as in the neck vein. Bleeding from the eye vein, two inches below the inner corner of the eye, must be done with a very slight puncture, or the point of the lancet will be broken against the bone.

To bleed from the toe, you have only to cut away the sole underneath at the toe, where the crust and sole join, until blood comes. When the sole is cut away underneath with the drawing-knife, take a fresh sharper one, or a clean "searcher" to cut through the vessels. If you cut deep enough, you will generally get the quantity of blood you want. A little tow or cotton is then to be stuffed into the hole, and tar over it, and a bandage wrapped over all for four or five days.

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## PHYSICKING

takes six days: two for preparation; the day it is given, and the day on which it operates; and two more to return to the former diet: but on an emergency, or when the dung appears softened, four days may be sufficient: one for preparation; the day it is given, and the day it operates; and one more to increase to the former diet.

Whenever a dose of purgative physic is to be given to a horse in consequence of being out of condition, or previous to being put in training, or when in training, or coming out of

training, it is most necessary he should have bran mashes, instead of his grain, and very little grass for the previous day, or two days, whether the physic is to be aloes or oil, a ball or a drench. If he will not eat bran mash, he must be well stinted of dry grass, and a little green (cut the previous day) given. There is a peculiarity of structure about a horse's inside, that, unless he is properly prepared and carefully looked after under physic, you not only will do no good, but, on the contrary, you will throw him some weeks back, and even run the risk of losing him; for it is surprising how suddenly a horse will sometimes "go out" under a dose of physic improperly given. You should endeavour to give your physic, for any of the above purposes, of that strength that not more than ten extra evacuations will be produced. Some horses are easily operated on with a ball of four drachms of aloes; others require a large dose of seven. At one time in the year, a horse will sometimes purge with five drachms, that another time will not feel the effect of six. Four to six drachms of Mr. Sprague's or Treacher's aloes are generally ample for any Arab horse, if properly prepared and properly exercised; but eight drachms may fail to purge, without proper precautions and exercise, and yet easily produce inflammation and death. Some

horses, again, will purge in twelve hours;\* others not for thirty-six. The best and safest purge for a novice to give is a drench, and that drench composed of aloes and Epsom salts, or oil and Epsom salts: thus, if you think five drachms of aloes is required to purge, give three drachms, and five ounces of Epsom salts (two and a half ounces of salts for one drachm of aloes), dissolved in three quarters of a pint of warm water, adding one ounce of salad-oil and a quarter of a drachm of ginger; or, if oil is to be given, a pint of linseed-oil and five ounces of the salts. These aloetic balls prove occasionally most raking to the bowels of an Arab horse, and a large dose of them is always attended with risk. The above drench may be safely given, even when bran mash is refused, provided the horse has been muzzled at night and the other directions duly attended to; and, with a clyster of salt and water on the same day, it will, with proper exercise, purge effectually, and rarely disagree. The following directions will guide you how to treat a horse under physic. Suppose it is to be given on Wednesday morning:—

\* A little Arab I once had charge of used to purge in ten hours, though the physic was given in a ball; and in fifteen hours it had generally set.

*Monday.*—Give four māps, that is, one bazaar seer, of bran mash for his first feed at eight in the morning, and only one pooly of grass after it. Four ditto at one o'clock, and only one pooly of grass after it. Four ditto at evening's feed, and then allow him to eat grass until nine o'clock, when the muzzle is to be put on for the night. Give as much water as he likes to drink, but no more grass than this. He should have an hour and a half of walking exercise, both in the morning and evening, for which he may be ridden; or if strong, and in good health, may be gently trotted.

*Tuesday.*—Exactly the same as Monday, with another bran mash at nine o'clock, before being muzzled.

*Wednesday.*—At daybreak let him have the physic, always washing it down with two drachms of common salt in half a pint of warm water, whether it is a ball or a drench; this facilitates the "working," and may prevent the horse feeling sick. Give five māps of bran mash for his first feed at eight in the morning, but only a mouthful of grass after it. Five ditto at one o'clock, and half a pooly of grass after it. Five ditto at evening's feed, and one pooly of grass



after it, when the muzzle is to be put on till nine o'clock, at which hour he may have another bran mash, before being muzzled for the night. The more water that is drunk the better, but on this day the chill must be taken off, whether it is the hot or the cold weather. Walking, or very gentle trotting exercise, morning and evening, the same as on Monday and Tuesday.

*Thursday Morning.*—The physic, during exercise, will perhaps begin to work ; if it does not, you must feed exactly the same as the day before, for sometimes it will not operate for another ten or twelve hours. A mash and a little warm water, and another half hour's trot, will often bring the purging on ; and, when it does come on, he may have bran mash again, a little dried grain, or a pooly of grass, and water with the chill off. If only two or three evacuations take place, give more warm water and another trot, which will carry it off. But, though the medicine should fail entirely to act, you must not administer another dose, for fear of producing over-purging or inflammation. Some bran mashes must still be continued, with but little grain, for the following forty-eight hours ; and then, after an interval of another four days, making exactly a

week from the time the first dose was exhibited, a stronger may be given, preparing the animal the last two days as before.

Should the physic have been a drench,\* precisely the same rules are to be followed throughout; but the purging will in this case commence on the evening of the same day, or about sixteen hours after it is given. Whenever it does commence, he may have bran mash, grass, and water with the chill off. You can give these mashes warm, but there is no occasion for any extra clothing; and, if he has not been accustomed to any clothing at all, do not put any on, unless the weather is damp or cold. If he has been standing outside, he should, during these six days, be brought under cover; but never dream of putting him into a shut-up, close stable, like many of those in Bombay. Such is far more hurtful and dangerous than leaving him outside.

If the dose you have given was not a mild one, which it ought to have been if you were not aware of your horse's constitution, and he should purge more than ten times, give immediately a quart of lukewarm finest bajree, or wheat-flour gruel, with two drachms of gum

\* Have a drachm of aloes more than you are going to give, finely powdered, so as to be ready in case of spilling.

arabic dissolved and put into it, and repeat this every two hours till the purging stops, or he has once dunged a little thicker. He is not to eat or drink a particle of anything else till this takes place, but remain quiet in a loose stall with a muzzle on, and allowed to lie down on his bed. If he will drink the gruel, let him take a couple of quarts each time; if not, drench him with one. A horse should not have a dozen watery evacuations, when the intention is merely to promote condition or prevent illness, or, the object for which the physic is given will be defeated. This fine bajree, or wheat-flour gruel, and gum, will soothe the bowels, and in the course of six or eight hours generally stop the purging. Should it not be found sufficient, and he should still purge on to the number of twenty times and more, it will be time for you to look to OVER-PURGING, in a subsequent page of this volume.

When the physic has done working, whether it has been a ball or a drench, two days more are still required before he can resume his former grain, and be put to work; for the too rapidly filling of the stomach and bowels immediately after physic, often proves as dangerous as giving the physic without preparation. Two

māps of bran mash, and one of ground grain, can be given at each feed, and one pooly of grass after it, and at night he may eat away at grass till the muzzle is put on at nine o'clock : the water must have the chill off, as before. The next day the grain may be increased to two māps at each feed, and the bran mash reduced to one : the water may now be given cold, and the muzzle left off at night.

I have particularized everything under this head, because I have been witness to numerous horses being greatly reduced in flesh, and also to severe gripes, and even inflammation and death taking place, solely from neglect of the above precautions. If you deviate one iota from these directions, or do not see that they are minutely attended to, and your horse should sicken, and the prescription under Class I. of Part IV. fail to cure him, do not blame the Aide-de-Camp.

#### TO MAKE BRAN MASH, AND BRAN TEA.

*Mash.*—Pour boiling water on sweet fresh bran, stirring it about; then cover it up until it is cold. Some horses dislike bran, especially if it is stale, or has been given them dirty at some former period. A seer mixed with their

gram, at each feed, two or three days before you commence preparing for physic, is a good way of accustoming them to it. If he should refuse to eat the bran mash on either of the two first days, you may put half a mǎp of soaked gram in it, but none on the day the physic is given.

*Bran Tea.*—One gallon of boiling water to be poured over every four mǎps of bran, and strained off when cold. The bran is quite fit to be eaten afterwards.

#### TO MAKE FINE GRAM, OR WHEAT FLOUR GRUEL.

Mix two mǎps of the finest flour with six quarts of boiling water in an earthen koondee: put it on the fire for eight or ten minutes, stirring it about. If merely mixed with water, it is liable to clot in the stomach and do harm, especially when given in over-purging; for this last case it must therefore always be made with the hot water, and properly boiled; or keep at hand some previously made thus: boil two or three pounds of dry wheat bajree, or gram flour, tied up in a cloth like a pudding, for four hours: it will keep for months, and a piece being broken

off, and mixed with boiling water, it is ready at once. No animal, and no man either, has so nice and delicate a taste for drink as a healthy horse; and if the water is the least smoked, or the gruel should get the least smoked when on the fire, or the koondee it is put into be the least greasy or dirty, or even, perhaps, if the koondee is quite new, he will be sure to smell it, and most probably refuse to drink; and, if he has not occasionally had gruel before, will very likely never afterwards voluntarily swallow it: now, as this is of consequence, inasmuch as gruel is very necessary at times for a horse recovering from sickness, it behoves you to take care and offer it him clean. Many horses will turn their heads away even from clean gruel, when under physick, that at other times would drink a dhool full.

#### MUZZLE.

Let your muzzle be at least eight inches deep, with two large holes, both full two inches in diameter at the sides close to the bottom, for each nostril; and the top of it large enough to put your hand in on each side. It is barbarous to see the way in which some horses are half suffocated with a little hard muzzle tightly drawn

over their mouths. Do not choke him either with the neck-strap: see that it is well and fast buckled, but not drawn tight round the throat. The neck-strap of the head-stall is also often tied or buckled so tight, that the poor animal is half throttled, and, not being able to speak, loses his whole night's rest in consequence.

## DRENCHING.

In drenching a horse either with gruel or physic, a common soda-water bottle, or a thick English wine-bottle, with a piece of leather sewed tight round the neck, to prevent accident from the glass breaking, is cleaner than anything else. Put the neck gently into the mouth just above the tush: if he is a quiet horse, and it is properly given, he will swallow down the most nauseous dose with as little trouble as a child takes its pap. If very restive, you can have it put into a thick leather bottle, which a Moochee in any bazaar will knock up for you in a few hours.

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## PHYSIC BALL, AND DRENCH.

*Ball.*—Finely powdered aloes, and a quarter the quantity of kidney mutton fat, that has been well boiled down. Make into a long ball, or two, if it should be large, adding a dozen drops of oil of anise-seed, and some calomel, if required. Wrap it up in tissue-paper, oiling the same with linseed-oil at the time of giving, for a ball cannot be too soft. A hard ball takes double the time to dissolve, besides the danger of its sticking in the gullet, and choking the animal. If the aloes be soft and difficult to powder, mix in the mutton fat and warm them together over a fire.

*Drench.*—Put the aloes and Epsom salts into a pint bottle, pour three quarters of a pint of hot water over them, shake until *well dissolved*, and, when cool, give.\*

When calomel is required over night, previous to a ball or drench on the following morning, it is to be mixed up with a spoonful of linseed-meal and ghee, and given at five or six o'clock, on an empty stomach, before taking his

\* Some horses will hold a drench in their mouths for ten minutes without swallowing it.



walk. The bran mash and a pooly of grass may be eaten afterwards, at evening's feeding-time, and then the muzzle put on for the night.

## ALTERATIVES.

Nine to ten drachms of best aloes, one drachm of calomel, and thirty drops of oil of anise-seed, made up with linseed-oil, and a tea-spoonful of linseed-meal; or, as under "PHYSIC BALL," and divided into eight balls, one to be given every morning at daybreak, and one also every evening about five, when he goes out for his walk, will answer this purpose, when they are required; but an alterative drench morning and evening, of one drachm of aloes and two ounces of Epsom salts for each drench, is sometimes preferable: a drachm of Turkey rhubarb may be added to each drench for a thin horse. The same care is to be taken as under "PHYSICKING." He must have bran mashes instead of gram from the day the first ball is given, and be muzzled at night; the water always with the chill off, and only one pooly, or the same quantity of dried green grass after each feed, except in the evening, when he may eat grass until muzzled, at nine or ten o'clock. If he is thin, half a māp of

soaked or boiled ground gram may be added to each mash. Good walking exercise morning and evening, but no *wet* green grass, and no washing under physic. If they do not operate twelve hours after the last is given, and after you have given a trot, continue them on until they do; but clyster first, with one ounce of soap and two drachms of aloes in a gallon of warm water, or the horse may be severely over-purged from the effect of the whole taking place at once.

When calomel is required in combination with alteratives to a greater amount than a drachm, it should be mixed in the four first balls, to prevent any chance of salivation.

If your horse will not eat bran mash, which is most probably your own fault, do not give laxative alteratives.\*

#### GENERAL ALTERATIVES.

Three drachms of black sulphuret of antimony, three drachms of sulphur, two drachms of nitre, and half a drachm of ginger, made into a ball

\* \* A one-pound powder-canister once full, piled up, is about equal to a māp, or kutchā seer; but whenever a māp or seer of ground gram is mentioned, it does not mean a kutchā seer

with honey or ghoon, and given every night for a week or ten days, the horse eating partly-boiled food, and receiving only gentle exercise, is the best alternative for improving appearance when no particular complaint exists. It is also good for preventing plethora.

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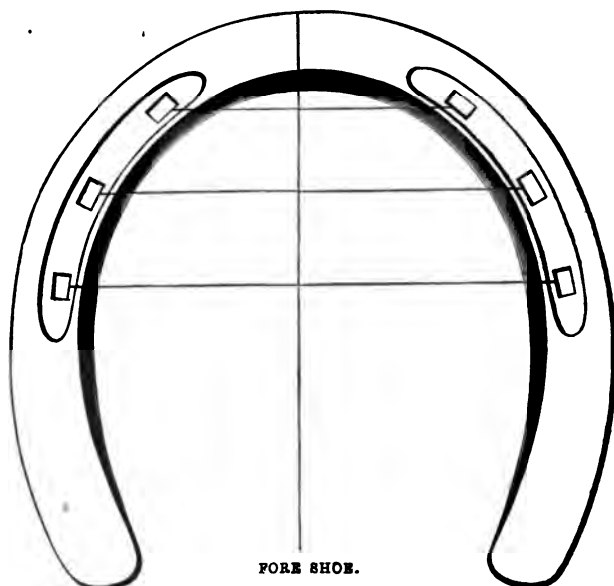
## SHOEING.

VARIOUS kinds of shoes and nails cannot be constructed in India : there are neither proper forges, nor proper persons to superintend them. The pattern here given is easily made, and will be found to answer well for either a Racer, Charger, or a Hunter, and be less productive of injury than a broader web at the toes, which, being never sufficiently beveled out, is consequently apt to press on the sole, besides being more liable to pick up stones. There is no occasion to discard it when it becomes old and thin at the toe ; the

of whole grain taken and ground, that would be upwards of a kutchā seer and a quarter ; for eight māps, seers or powder-canisters full of unground gram, will make eleven when ground. A pooly of grass is about two pounds.

older the better, if only strong ; and wearing thin at the toe is no disadvantage.\*

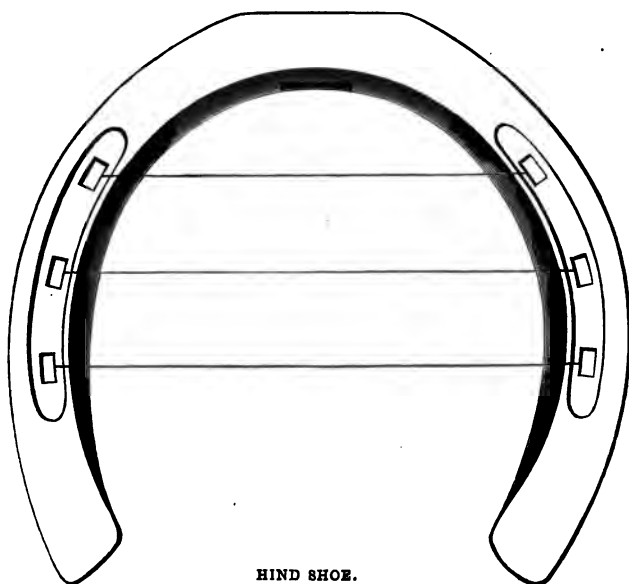
If this shoe is properly made ; the crust that it rests upon evenly rasped ; the sole properly pared ; and the foot, during the intervals of shoeing, always kept properly stopped and moist, you will most likely be able to avoid contraction :



\* Some of the French shoes are bent up at the toes when first put on, in the shape of men's wooden shoes ; but to be able to judge of the comparative merits of different forms of shoes and nails, requires great study and great practice. Whether you adopt that which I have recommended or not, keep the heels open. In France, my horse's heels never contracted, and in England they never contracted : in the former country they were generally shod under the superintendence of a government

if you fail in any of these, you will have contraction.

It is five-eighths of an inch broad all the way round from toe to heel, and one-fifth of an inch thick all the way round from toe to heel. There is a groove sufficiently large and deep to receive



HIND SHOE.

veterinary surgeon, and in the latter at the celebrated Mr. Turner's: neither in India have my horse's heels ever contracted, and here they have always been shod with this kind of shoe.

A pattern of the fore and hind shoe is lying at Dady's, in Bombay, which will show the groove, as also the form of the nail, and how the nail-holes are to be punched; and by which you will see if the nails are properly pointed; so that the Nolband will have some difficulty in pricking the horse, even if he tries.

the small oblong heads of the nails, which are to be driven in even with the shoe ; and this groove is well away from the edge of the shoe, so that the nails shall be driven nearly as far in as where the crust and sole join—" just between wind and water"—and brought out about three quarters of an inch high up in the hoof. From the nail-holes on the inside, it is scooped out, beaten out, beveled off, or filed away, to admit of a pricker being passed under to clear out all sand and gravel, and so that it shall not press on the sole. The inch at the heel that is not beveled off is to rest where the bar and crust join, not quite touching the frog. There are six nail-holes, three on each side ; and the nail-holes are to be punched with the Nolband's common punch, firstly on the inside, lastly on the outside ; by which means they get a slanting direction outwards, and there will be no danger of the foot being pricked. These nail-holes must be punched while the shoe is hot, or the iron, which is rarely of the best quality, will split. Always see that the nails fit the holes before you put the shoe on ; for if the heads of the nails are not small enough to go into the groove, or the groove not large enough to receive them, they will be broken, and the shoe come off.

A horse with straight pasterns, on a very hol-

low foot, may have it made a little thinner at the heel than at the toe; and if the foot is black, strong, and well open, another nail may be put on the outer side for hunting, &c.; but, out of some hundreds of feet, I have found the outside very nearly as often contracted as the inside. The hind shoe has the nails rather farther back, and the toe is a little squared.

The weight of this shoe is about six ounces, and by reducing the thickness a little it will weigh about five ounces, which will be a proper training shoe. It must not project the least beyond the heel, but be there nicely rounded, or the hind foot in the gallop may possibly come in contact with it, and the horse be thrown, or the shoe wrenched off. The ground surface of the toe of the hind shoe should also be filed a little, to take off the edge, as a further precaution.

## CUTTING THE HOOF.

The foot having been soaked in water to render it soft, the sung-turash is to be used very sparingly—not at all for a flat foot; for if too much of the bottom of the crust is first taken off, there may not be sufficient horn left in the sole to make it properly concave: then with the drawing-knife

cut away the horn, till, by the strong pressure of your own or the Nolband's thumb, you can feel the sole bend up towards the corners, as well as the fore-part: this is the guide for all feet worth the expense of shoeing. If more is cut away, the horse will be tender, perhaps lamed: if less is taken off, he will require shoeing again in a fortnight. When the foot is not softened before going to the Nolband's, either by cow-dung stopping for the two previous days, or by being soaked in water two or three hours before shoeing, or by cloths wrapped round the coronet, and warm water poured on them for that time, a great deal too much horn may be cut away before the sole will yield. A fine flaky foot will often show of itself the proper quantity to be taken off; but others again would suffer; besides, the hoof being moistened, adds to the nails taking firm hold, and prevents the horn splintering; the foot, moreover, is shod in half the time, and the Nolband saved from a gash in his arm. The horn between the bars and the crust having been cut away with the drawing-knife, a full sixth of an inch of depth must be left up in the corner where the bar and crust join. Never cut away the horn between the bar \* and the frog, but cut away a little of the

\* For mercy's sake! learn where the bars are, for the manner in which English farriers, as well as Nolbands, cut them away at



very hindermost part of the heel, just the last quarter of an inch, so as to allow the heel of the frog, where the cleft is, to expand, and prevent the horn bending in there. Neither cut the frog unless it is ragged, excepting towards the toe; and only there, if it should be hard and higher than the heel.\* Lastly, file till the crust and bars are even, leaving the frog, if possible, the eighth of an inch higher, so that it shall be just within the level of the shoe. The toe should always be shortened as much as it will admit of, and any unevenness in the wall rasped smooth. There should be room enough for the edge of a knife-blade to play between the shoe and the crust at the heel when on; and the shoe at the heel should extend the eighth of an inch beyond the crust on the inside, as well as the outside. You

this part is disgraceful. The English farrier calls it opening the heels; and I have seen them retrograde into this most destructive method of cutting, a few months after losing the supervision of a veterinary surgeon. The bars are the finish of the crust, of harder horn than the sole, and a different shade of colour; they never run down straight, but curve, as shown at p. 39 in the description of feet; and the place for opening the heels is not in the middle of the bars, where the Nolband sideways scoops them half away, but opposite the heel of the shoe, *behind* where the bar and crust join.

\* If the frog is deficient in height, after the heels have been lowered, tar must be daily laid over it. If naturally too high, which is not so often the case, it may be slightly pared.

need not fear that this will be a cause of cutting: a horse cuts with the quarter, sometimes with the coronet; his legs must be very faultily placed to cut with the heel. The natural well-formed foot, also, is a smaller half circle on the inside than the outside, as shown at page 39; and this form is, of course, to be preserved.

#### THREE-QUARTER SHOES AND TIPS.

Three-quarter shoes I dislike, for I think they lame as many horses as they cure of contraction: they lame, because they are rarely put on good feet, but on those that have contracted heels, in the hope that the heels will open without the horse being taken out of work; but it is only strong black heels that are tough enough to stand hunting, or battering on a hard road, when the shoe does not come well home. They seldom have much beneficial effect on contraction, because the heels are never sufficiently lowered when a three-quarter shoe is worn; and if the heels, when the pasterns are long, were to be sufficiently lowered, too great stress would be thrown on the back sinews, unless more horn at the toe is pared away, as I am about to explain, under Tips.

Tips are equally objectionable on this principle, and more so if the horse is to be worked (though not quite so liable to get imbedded in the foot). But when a brittle hoof is laid up from contraction, a tip with two nails on each side, close to the toe, will save the crust without any impediment to the heels opening; yet there are two errors universally committed in India in putting on a tip. The heel of the tip is always too thick; it should slope down to as fine an edge as a dinner-knife blade, and the horn towards the toe should have as much extra pared away, after the foot is finished cutting, as directed under "CUTTING THE HOOF," as the tip is thick; then the horse is not thrown in the slightest degree more than natural on the heel, which is of great consequence with an oblique pastern. Secondly, a tip should always be narrow. A horse on soft turf, or Bombay sands, may be trotted, or gently cantered, or put in the lounge, with benefit to contraction, and no fear of strain, when tips are made strictly in this way; and if put on good strong black feet, with open heels, they will prevent contraction taking place, and answer very well for ordinary riding, or even for hunting, in some of the sandy soils of India.



## PART III.

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### PUTTING INTO CONDITION.

#### STABLING AND CLOTHING.

HAVING made your purchase from the stables, whether as a Racer, Charger, or Hunter, the same system is to be pursued in order to put him into strong healthy condition, externally and internally; and, from the day he comes out of the Bomb Proof, never let him enter a shut-up stable, but picket him in an open pendal, or under a tent. You are not in England now, and you will reap the benefit of this by-and-by. From about the 1st of November to the 1st of March, one unlined cumly is necessary at night, when picketed in either of the above; but never more than a dungaree one, if he is, where he has no business to be, in a close shut-up stable. There is no medium with

some people ; they either advocate shutting their horses up in a dark and hot stable, thereby doing their best to introduce half a dozen English diseases ; or else picket the poor brutes out in the open mydan the whole year long, caring nothing about the thermometer for six months being at 130 degrees in the sun, whose rays penetrate their very brains ; while, at other seasons, the rains pelt down on their unlucky backs unceasingly for twelve hours, and sometimes for twenty-four, without their being exercised during this time ; thereby producing fevers, rheumatisms, bad surfeits, and inveterate mange. The man who pays fifteen hundred rupees for his nag, generally adopts the first of these, the hot and dark stable, by way of taking care of him ; the man who pays five hundred, the open mydan, by way of allowing the poor brute to take care of himself ; either way impairing their constitutions, and making them miserable.\* A stable in all the warm latitudes of India should be nothing more than an open thatched or tiled pendal, fifteen feet high, and made into loose stalls of twelve feet square each. During the hot and rainy months also, if the ground is not damp, make his bed outside ; the insects in some

\* The Bombay cavalry are always picketed outside, and this is called a *state of nature*.

places may be more numerous, but it is cooler. If at a cold station, and one side of the stable closed up, let it be the north-east side, and open to the south-west. Should you be anxious to ascertain whether it is the proper temperature, and clean or foul, sleep in it yourself for a couple of nights; and if you find it close and uncomfortable, so will your horse.

A small jhool, merely covering the back, and not even meeting under the belly, is but half a jhool. Jhools, whether to keep the horse warm, or to keep the rain, the sun, or the flies off, should all be made on the same principle. A four-inch broad band should tie or buckle across the chest, to prevent it slipping backward; the hinder part should cover the thighs nearly down to the hocks, a large hole being cut for the tail; this in the cold weather prevents the wind from rattling along the belly; but, when the jhool is made of thick numbda, it is better to have the hinder part of lighter stuff. In the hot weather, when made of dungaree, this form alone keeps the flies off the inside of the thighs and testicles, and it never interferes with the motion of the legs. Whether made of heavy or light material, it should double well under the belly, and have two ties of inch and a half broad tape, one piece a little behind the withers, and one in

the middle of the back, both fastening on the near side, just under the ribs. The breast-piece must be separate, or the horse can never have the free use of his legs ; and it should always be worn with the body-jhool. An extra piece, a foot square, should also be put on the back, when a roller is worn. The neck and head piece in one, when required, must fasten with tape over the withers on to the body-jhool, but not too tight, or it may tear from off the head when lowered to lie down or to eat.

Fly-flappers should always be worn from the 1st of March to the 1st of November.

When you use a tobra, let the mouth be the smallest part and not the bottom, or a lot of the grain is lost on the ground by the horse throwing up his head.

#### THE FEET, PHYSIC, ETC.

Having picketed your horse where he can breathe fresh air, and at the same time be safe from a stroke of the sun, send for the Nolband, take off his horrible shoes, have the soles properly pared, the horn rasped smooth, and let him be walked on the sands unshod. Give a little bran mash in each of his feeds



of ground gram ; as much water as he likes to drink ; but not much grass. Continue this for a week or ten days, and then prepare him for physic. This is the only time I shall urge you, without a very good reason, to give physic ; but on first coming out of the stables (if he has not been physicked since he came out of the boat, which you should inquire, for many of the dealers are great physickers) he will be safer ; and, if thin, get into condition quicker by a mild dose.\*

\* J. Stewart, p. 48. "Hundreds of horses have been ruined or destroyed by the first journey they have made after being purchased. The buyer has been ignorant, that, to command even moderate work from a horse, he must be prepared for it very gradually, and by a systematic course of treatment."

Horses never thrive well in Bombay during the rains. If purchased from the stables in April or May, they should be physicked and sent off to the Deccan by the 1st of June : the benefit will be great, *if properly* looked after.

A short time since I heard the following dialogue between two of my brother amateurs, one a civilian, the other a militaire.

*Civilian*.—Are you fond of physicking horses ?

*Militaire*.—No, I never yet physicked a horse, and never would. I never knew any good come from physic.

*Civilian*.—Well, I differ from you. I never had a horse come into my possession, I did not immediately physic ; and ever would. If I had fifty, I would physic them all to-morrow.

Now, there are some individuals in almost every camp holding exactly these opinions : they never give a thought, nor care a button, whether the horse requires physic, or not :

Prepare him, therefore, as directed, and give over night a drachm of calomel, and at day-break the following morning a drench, deducting a drachm of aloes for the drachm of calomel.\* If your medicine is not made up at Mr. Treacher's or Mr. Sprague's, at least learn

they are persons who have never seen a stable properly managed; have most likely never had a valuable horse, and most certainly never ought to have one. One always physicks, because it is his custom to do so: the other never physicks, because it is his custom not to do so.

But worse than the above are some of those fresh-landed sportsmen, who, with pockets well lined, have, previous to embarking, obtained a slight insight into their grandfathers' or uncles' great studs, and therefore they would have us believe they must intuitively have great knowledge of horse-flesh, like the strolling boys that played the jews-harp, saying, they must be good musicians for their fathers belonged to the town band. These people commit more cruelty, havoc, and ruin in one year than their careless or less wealthy brethren do in a dozen; and I never knew one that could harden the flesh and get a horse in good wind, and at the same time preserve the legs clean, and the heels open.

\* See "PHYSICKING." Never venture on more than one dose in order to put your nag into condition. If that does not effect all that is required for this purpose, when no ailing exists, twenty will not; there is something else needed besides purgative physic. Eight drachms of purified bazaar aloes, such as you may get and purify yourself, I find equal to about six of those procured from Mr. Treacher or Mr. Sprague. Twelve drachms of unpurified bazaar aloes I have given without effect: they are very apt to bring on gripes, bloody urine, and inflammation of the bowels.

that the aloes is good ; as that brought from the bazaar contains from a third to one half of dirt. Never attempt to allow for this by giving a larger quantity, or you may be much deceived, since two drachms too much may irreparably injure the bowels of a weak horse, perhaps send him out of this world. Two days after the physic has set, if he should have been purchased thin, hide-bound, having the lampas, a staring coat, and looking dull, as these are all merely the symptoms of a deranged inside, take ten drachms of emetic tartar, five drachms of ginger, and five ounces of nitre ; mix these up with honey or ghoon, divide into ten balls, and give one every morning at daybreak. Continue a little bran mash at each feed with his ground gram, and let the gram be steeped in hot water ten minutes to soften it, or change the food to boiled oorud, which is an excellent fattening grain on these occasions ; or give some boiled barley at each feed with his bran and soaked gram.\* There is no necessity to muzzle him every night you give these balls, unless he is a foul feeder and eats his bed, and then it should never be omitted until his stomach regains its

\* In boiling or steeping grain never put more water than it will soak up, or a large portion of the strength of the grain goes into the water that is thrown away.

natural tone. When they are finished, put a drachm of black salt, finely pounded, in his gram at each feed, and in a few days double it, and then treble it; nothing being more palatable, or better suited to recall the appetite of a horse recovering from sickness than this. Green grass, or lucern, but never with the dew on it, (it should be dried twenty minutes in the sun after cutting,) should also be given in moderate quantities, if procurable; if not, sliced carrots; and he should be walked, or ridden at a walk, morning and evening, according to his strength. It is want of care during the first month with these thin horses; giving them eight seers of hard grain when they cannot digest half; putting them into a canter when they are scarce fitted to be mounted for a walk; omitting physic, or giving it too strong; and allowing them to continue gorging on all day and night at dry grass, that disarranges their inside, and renders it so difficult to bring them round again into anything like order. If you have attended to the foregoing, and evident improvement has not taken place in a month, but he still looks dull, and feeds badly, and you can discover no rheumatism, no fever, no worms, (examine well the pulse, mouth, teeth, &c.) persist strictly in the above way of feeding, and give every morning at daybreak, for

a fortnight, some of the beer-tonic, p. 148. Let him, also, always now drink some warm gram gruel, sweetened with a lump of ghoon, when he comes in from his walk in the morning, and a little also on return from his walk in the evening. This simple treatment will benefit him greatly; and when the ribs are well covered, the flesh on the quarter, and the belly of moderate size, he may be called in condition externally—a sort of dealers' condition, having an appearance ready for sale, though, of course, not ready to be violently galloped—one, however, which undoubtedly is far preferable when making a purchase, to taking a skeleton, inasmuch as some few horses really do exist that never can be made fat, and you would be so far certain you had not got hold of one of these; besides, it is half the way to real condition, and is a state you should always advance your horse to before you attempt to put him in condition internally; for, by commencing work too quickly before you have ascertained whether there is any latent ailing about him requiring a different course to be pursued, you may be thrown back three or four months.

## HOURS OF FEEDING AND WATERING.

The usual feeding hours in India are morning, noon, and evening; and as that is a good system by which horses get even quantities at regular hours, and go out with their stomachs empty, (riding times being morning and evening,) it cannot be advantageously altered: for noon, however, substitute one. The hours of nine, one, and seven are a better division than nine, twelve, and seven; and do not allow him to eat grass at nine and one for more than an hour and a half after each feed, when it should be invariably all swept away. The use of salt for preserving health; two or three drachms in each feed is granted, and should therefore continually be given. If the black salt is used, a smaller quantity will suffice.

Water is usually given twice a-day; first, after morning's feed, and again between three and four o'clock. They will often thrive very well on this, and if offered it at other times, even in the hot weather, will frequently refuse to sip any; but a horse that is out of condition, or one that is to be trained after he is got into condition, will be better if water is allowed oftener. Give a dhool, about three gallons, half an hour before

the morning's feed, and another half an hour after it; a dhool at half past twelve, half an hour before the one o'clock feed; and another at half past three. In the evening, when he comes in from walking, and is cool, offer half a dhool more, but do not let him drink more than this at any one time. Horses that are only watered twice a day will often drink a bhæstees large dhool twice filled, six gallons each time; some will drink more, which, with their bellies full of gram and grass, I have seen produce most violent gripes.\* Never allow the dhool to be used for any other purpose than drinking, and then the older it is the better.

## GROOMING, WASHING, ETC.

A good gora-walla, well looked after, will clean your horse quite as well as an English groom; and twice in the day, at eight in the morning and half-past three, with a rub down and slight brushing when he comes in from exer-

\* Watering immediately after feeding on barley is said to often bring on gripes and inflammation: this is far truer of wheat. A too sudden change of food, from gram to barley, and then watering immediately after, may bring on gripes and inflammation; but then the sudden change of food is as much the cause of the disease as the watering after. Water-

cise in the evening, are the proper times. During the months of March and October, or when he is changing his coat, dispense with the curry-comb, if thin-skinned, and use only the hand-rubber and brush. Moulting, in all hot latitudes, is very slight, yet some horses are a little weak in consequence: a bran mash should be added to the gram every evening if this is the case, and a little sweet gram-flour gruel given in the morning. The hair of the mane and tail is often greatly disfigured by the curry-comb and hand-rubber, making it all scraggy, and giving it the ugly and dirty appearance of mange. Never permit the curry-comb or hand-rubber to go within three inches of either the mane or the tail, and then the hairs of the mane from the near side, that hang over to the off side, will be equally long with the rest; and those nearest the root of the tail will be also long: the hair destroyed in one day by a slovenly mode of cleaning, will take a whole twelvemonth to grow again to a proper length. The comb is often in fault

ing immediately before or immediately after any grain is unwholesome, and to some horses dangerous, and after gram quite as much as after barley. Horses of delicate stomachs, indeed all horses, should be watered half an hour before, and half an hour after morning's feeding, to prevent the food swelling in the stomach too much.



too, from the numerous teeth in it : have it of thick, strong bone, but file away every other tooth, not leaving more than six, including the corner ones; and then the hair will neither be broken nor pulled out. The mane and tail being in nice order, add much to the appearance, and often materially facilitate the sale of a horse. The manes and tails of all horses, excepting the Cavalry, are combed to the off side.

When brought home in the morning, after his walk or canter, at whatever season of the year it may be, never allow him to be taken into the pental till he is quite cool. The wisping with grass, the instant the saddle is taken off, must then be liberally performed; first over the saddle-place, till every hair is dry, and then all down the legs to the hoofs, until the fetlocks feel warm from the rubbing; this will often prevent swelling of the legs: but, if the legs are begun with, the saddle must not be removed; or, the back being neglected, the first minute it is taken off may give cold, or produce warbles. At this grass-rubbing, it is always better to have a couple of gora-wallas employed, if at hand, and which is imperatively necessary if the horse has been in the rain; but, that over, he may be left as safe till the gora-walla is ready to begin with the curry-comb. During this cleaning leave

the legs from the knee downwards alone, till he is watered ; or, if you like, till half an hour after that, when the grain is given ; then lay on the hand-rubbers, and afterwards brush all smooth. Wash his feet and heels lastly, if they must be washed ; but, unless they are dirty, it is quite unnecessary. That abominable English custom of washing a horse's legs when he first comes in, and that often in cold water, tends to produce windgalls, cracks in the heels, and contraction. In the cold weather, it is true, it is generally done with warm water ; but the rubbing and scrubbing to dry the heels, and then the draught of cold wind they are exposed to in a stable, is apt to produce cracks as well. In India, once every other day, when he is finished cleaning, at four o'clock in the afternoon, is quite often enough to wash his legs : the chill should be taken off the water in the cold weather.

Should you be lately from England, you perhaps have as great an aversion to wash your horse's body as you have a predilection for washing his legs. Some grooms have, I know, a great dislike, even in the height of summer (the only time it is asked), to wash a blood-horse all over : they think it looks strange, and fancy it spoils his coat. The poor post-horse gets the advantage here, only that he frequently goes in hot. Do

not be prejudiced : you are now in India, and, for three or four of the hot months in the year, your horse, especially if he is a high caste one, should be taken to the river three times a week, about noon, before he has his one o'clock feed, and washed all over : he enjoys a lie-down in the water ; it refreshes and invigorates him greatly. In May, and the very hot months, if he perspires about twelve o'clock, half an hour before sunset should be chosen, and let him have his walk afterwards. Always take care that he does not remain in above ten minutes, and that he is rubbed down dry, and moved off in as short a time. Independent of this, the mane and tail should be washed once a week in lukewarm water and soap, (trotting well afterwards in the cold or rainy weather :) it keeps the scurf away, and makes the hair grow. The inside of the ears is a part so little thought of, that large scabs sometimes form there from the sticking of clots of dirt. Every morning and afternoon, when the cleaning is finished, these should always be nicely wiped out with a wet towel, taking care that no water drops into the ear.

## GETTING OUT OF ORDER.

If you have purchased your horse fat, in good external condition, and during the time he is being put into internal condition, by stronger exercise, &c., he should unexpectedly get stale, and cease to improve ; if his skin should become somewhat hide-bound ; his coat lie rough ; small surfeit-bumps arise on his body ; his mouth have the lampas, &c. ; should he, in short, get into that lubberly state, like a "ship in irons," evidently wrong, and neither go backwards nor forwards, you have been keeping him in a hot, shut-up stable, or, you have not duly attended to all the directions here laid down. Whatever has been the cause, treat according to "PUTTING INTO CONDITION," commencing with the mild drench of aloes and salts, followed by a week of the beer-tonic, p. 148 ; if rather fleshy, three or four of the ALTERATIVES, p. 101, should succeed to the physic, previous to giving the beer-tonic ; but never think of bleeding ; no, not if he is as fat as a hog.

## GORA-WALLAS RIDING.

Some persons have great objection to gora-wallas riding. If you have any kind of a decent gora-walla, and not above seven and a half stone weight, or eight and a half for a strong horse, he will, by one month's instruction, do as well to ride, at a walk, as if you had Jem Robinson. Give an old saddle, and see that it is placed well backward, clear of the shoulder, and kept there by being lined with plush; or, if necessary, by a crupper; and take care that the stuffing is quite free of the back-bone, so that looking under the pommel you can see daylight right through, or the back may be galled, and you will accuse your gora-walla of your own negligence, and be crying out, "This comes of gora-walla riding!" Let him be ridden also with a small light mouthing-bit, and make the gora-walla keep the head well up, not by pulling at the bridle, but by pressing the heels to his sides, and occasionally giving him a touch behind with the bagdoor, one end of which is to be fastened to the ring of the mouthing-bit, the other end being in his hand, to guard against the horse running away if by accident he should fall off. This will preserve his mouth, prevent his ambling, make him put

out his fore-legs, and go light in hand, and be proper walking exercise; while the gora-walla will not be too tired to clean him well when he comes in. There is not half so much danger of your horse falling down when the gora-walla is on his back, riding in this way, as when he is slouching by his side, allowing the head every minute to come within a foot of the ground. A horse should only be led (except in training) when he is too sick, or too weak, or too tired to be ridden; and then, if it is the cold weather, the jhool in the morning's walk should be kept on; but walking exercise at other seasons of the year, with clothing on, when the thermometer is ninety, or more, is enough to put any horse "in irons."

#### DANGER OF OVERFEEDING.

Condition is not the work of a week; it will often take half a year for a horse that is thin, or fresh from the stables, and if you attempt to fatten too quickly by grain, before the strength will admit of your giving proportionate exercise, the stomach, unable to digest a large quantity, will be weakened; thus the grain will often pass whole, and the horse fall off instead of improving, or he will grow dull, heavy, and gross. And

even should he be able to digest all you give, this raising of the condition too quickly is very apt to produce fever, or inflammation of the bowels. It is always dangerous to allow an idle horse to overfeed on grain, it brings on scouring; besides, flesh gained at this risk adds but little to strength. There are some horses also that will keep plump on eight seers, and yet not thrive on twelve.

Continual increasing and decreasing of grain is likewise very bad. Feeding a thin horse on ten seers a-day, then reducing it suddenly to half the quantity, and then increasing it again to ten—all this irregularity is destructive to getting into condition; yet I have seen a man, when training, act not very differently from this, but I never heard of one winning, unless it was a donkey race.

#### MIXED BOILED FOOD, CHAFF, ETC.

Mixed boiled food is often absolutely necessary to recover lost flesh; and, when given only once a day, the evening is the proper time. One māp of coltee, one of oorud, one of barley, one of bran, half a one of linseed-meal, with three drachms of salt, or six ounces of ghoor, according to the horse's taste, all put into hot water,

and boiled for twenty minutes, with one māp of dry ground gram, and one of sliced carrots or turnips afterwards added, make an excellent evening's feed, and one which is very refreshing after a long day's hunt.\* This kind of supper, however, is often refused, unless the horse has been a little habituated to it, or if the cooking-pot it was boiled in was the least greasy or dirty, or perhaps from dislike to one of the articles. Any change of diet, anything new, must always be introduced by little and little,

\* Coltee, oorud, moong, and methee are the grains for boiling, and sometimes barley also. Coltee requires more boiling than either of the other three, but none of these should ever be given raw. Bajree and mhut are not so good for boiling; they are better in their natural state, and ground gram also, unless particularly hard, or the horse sick. Bajree and mhut are always mixed, as bajree alone is too heating; and mhut alone gives the gripes, especially when it is mixed with rats' dung.

Wheat is the most nutritious of all grain, but at the same time the most liable to disagree. The strongest-stomached horse could not bear a change to an entire wheat diet under four or five months, and then it is very unwholesome. Barley is the next most nutritious grain, then oats, then peas, and lastly, beans. It appears singular that beans, which in England are deemed absolutely requisite to a horse at hard work (not to train on), and which are known to put on the hardest flesh, should contain less nutriment than the other grain; and it appears equally singular that lucern, the value of which we all know in India in fattening a horse, should be the least nutritious of all the grasses; but so it is.



or the sensitive and dainty appetite of a horse will be sure to take disgust. Potatoes, or yams, should only be steamed, and turnips only par-boiled; but these had better not be given in large quantities raw. Carrots and beet may be given with impunity, and very wholesome they are; begin with a little. Turnips, carrots, and linseed-meal, when continued for any length of time, improve the skin and coat considerably. In the hot weather, two or three of the large radishes, called moolee, may also be given daily, stalks and all; but the natives term them cold and injurious, if water is drunk immediately after them. A seer of methee, boiled, and given at each feed, in lieu of one of the seers of gram, is also very good in some cases; for this grain has a double advantage, being very nourishing, and its adhesive quality preventing its being swallowed too quickly. Giving large quantities of ghee, ghoor, and trash of this kind, is disapproved of; and very properly so: but to a horse displaying all his ribs, a seer of bajree flour, six ounces of ghoor, and a wineglass of ghee, baked up together into a large thick ap, with half a drachm of ginger and two drachms of anise-seed, and given after the morning's feed, and the same again after the evening's feed, if he can only be induced to eat it willingly,

will rapidly help to cover them. Ghee is often very old and rancid; so, if disrelished, try it without the ghee, or with nice fresh butter. Sugar-cane, sliced, is also most nutritious and wholesome; but too many things are as bad as too few; you must select those that best suit his taste. Chaff will sometimes be found very useful. A pound of dry grass, a pound of barley or wheat-straw, boosa, and four pounds of lucern, chopped up small, and given after each feed; or his feed of boiled grain, bran mash, sliced carrots, &c., may all be mixed in the trough with half the quantity of this chaff; and the other half given afterwards.

After a horse has picked up in flesh, and is capable of being ridden for mornings' and evenings' exercise, he must not be allowed to get gross. A horse, after four years old, should never be too fat, any more than he should be too thin. Feeding also too much or too long on boiled food, chaff, sugar, &c., is bad; it must always be discontinued as improvement takes place, for it makes the flesh too soft, and may possibly have something to do with engendering worms; and the same benefit will not be derived from it as if given only during the times of thinness or sickness.

A horse that has been long thin and out of

condition, (if the emaciation is not caused solely by starvation or overwork,) always needs a *mild* dose of physic, previous to being fed on boiled mixed food. The "ALTERATIVES," p. 101, are generally best adapted to this case, provided the owner will only see his horse properly mashed, to prevent the chance of over-purging, and thereby doing more harm than good. \*

\* Caveat Emptor, p. 19. "I fed him for a month on chopped clover, bran, and malt, fermented by a little yeast. This is the way to pickle a horse for a friend!"

The above kind of feeding, continued incessantly for eight or nine weeks, lies on the fat in an extraordinary manner. The belly does not become large; on the contrary, there will generally be a nice, round-looking carcase, from the great nutriment contained in the food, and its easiness of digestion; but the whole barrel, as well as the neck, become thickly laden with gross fat. In England, where the generality of horses are geldings, and the neck consequently thin, the bellies being also often of large size, a little of this benefits the appearance; but to Arabs, who are almost all entire, and whose necks, with the exception of the high caste, are seldom over-light, too much feeding on such fattening stuff ruins, instead of improving, the appearance.

#### NATIVE REMEDIES FOR IMPROVING, FATTENING, AND GIVING A HORSE AN APPETITE.

##### FOR IMPROVING.

The Ralib, called Hulwæe Udruk, to be given only in the cold season.

Take of ghee, pounded turmeric, green ginger, and methee, two seers and a half each; put the ghee on the fire first, fry

## EXERCISE.

The system to be adopted with regard to exercise must be regular; and it is to be gradually

the turmeric well in it; then throw in the methee and green ginger, and let them fry thoroughly: then mix five seers of brown sugar in that, and add ten seers of milk. Work the whole up into a confection, and give a quarter of a seer once a day after watering. Increase it by degrees to a seer. It is a perfect elixir, and, if given throughout the cold season, the horse will be a world of beauty.

## FOR FATTENING.

Give turmeric, for six weeks, that has been steeped for twenty-four hours thus: mix one-eighth of a seer of turmeric with milk in which it has soaked for twenty-four hours, and give it once a day, fasting. Increase the quantity gradually to a quarter of a seer.

The seer for the above, means the native puckah seer, which is nearly two pounds. The cutcha seer is nearly a one-pound measure.

## FOR GIVING AN APPETITE.

Take equal parts of mustard, bhang, salt, and kichree, (kichree is rice and dal,) with flour just sufficient to mix the whole in. Weigh, and give about ten drachms once a day, after he has finished his feed, keeping him reined up for a quarter of an hour afterwards. This is also good when the bowels are flatulent, or when at exercise they make a rumbling noise, like a mussuk of water in the inside.

All these are useful at times, provided they are given in moderation, and nothing whatever ails the horse, but only simply wanting flesh, or appetite. If taken willingly, of course the better.

and never suddenly increased. Having now improved and become strong, he should have a canter during his morning's exercise three or four times a week, and any green meat that he has been feeding on changed to dry grass; but three weeks must be allowed before the change is wholly completed. Increase one m<sup>a</sup>p of ground grain every fortnight, and let the exercise be proportioned to this gradual increase of grain, and not the grain to the exercise: he is now only being put in condition, so, if he gets thin, decrease the exercise; but do not increase the grain too quickly. Some horses will get fat and keep in condition on very little grain; so much the better. By the time his appetite and digestion can contend with ten, eleven, twelve, or thirteen seers of ground grain *per diem*, (thirteen seers of ground grain is about ten pounds,) according as he may be a large or small horse, and a large or small feeder, he ought to be in strong healthy condition, externally and internally, which is to be thus defined: when he is fine in coat, and that fineness has been gained by the free use of hand-rubbers and brushes, and not by warm jhools, or hot stables; when he is firm in flesh, the flesh well up on the quarter, and he carries a good carcase; neither tucked up under the flank, nor let down like a cow: when

he is high in spirit, produced by kindness, and regularity of feeding: when he is fresh on his legs, and they are as clean and unblemished as on the day that he was foaled: and when all this has been brought about while he has been kept in an open pendal, so that with one extra head and body covering put over the single blanket, he could go on a march, or be hunted, and sleep in the open mydan, in the cold weather, without showing or feeling the slightest bad effect from it. This is the acme of perfection of condition.

#### HOW TO KEEP CONDITION.

As continual gentle exercise is the surest way to preserve health and prevent disease, so never omit, when unable to ride yourself, to let the gora-walla mount for an hour's walk, both morning and evening, giving some of the grain boiled every other night; this, when a horse is idle, or only at ordinary riding, being the chief part of the secret in keeping that plump appearance over the quarter: but, if even for upwards of a month he has nothing but walking-exercise, reduce the grain, if he is fat, and feed partly on green food; and be cautious that the change from any soft feeding to dry feeding, and from common exercise to

hard work, is always gradual, or the digestive organs will be weakened, and the legs will swell. When a horse is suddenly put to work, after being fattened on boiled food, lucern, &c., three moderate gallops will often take off all the flesh he has gained in as many months, making him ill besides.

Dry hard grain and dry grass are as injurious to a horse's body, when standing for weeks without exercise, as boiled food and green grass are to his legs whilst hunting. Turning out to grass, as they do in England, to eat nothing but green grass, or laying up altogether, in India, to eat nothing but boiled grain and green food, has long ago been proved destructive to condition. We have no opportunity in this country of doing the former; and the latter should never be resorted to, unless sickness or great poverty demands it. Too large a quantity of bran, such as bran mashes in every feed, is also very improper, and very lowering, if continued even for a fortnight only, to a horse in health. Bran mash is the diet of the sick, or lame horse, or occasionally to give at night mixed with the grain, when the dung is in small hard balls; but the dung in general is far too soft in India.

Never muzzle at night, unless you have some reason for it, such as preparing for physic; the

horse being a bed-eater, &c. ; and in the latter case something should always be given in the middle of the night, or an hour before day-break. The system of fasting from nine at night till nine in the morning, to please the fancy of the owner, is ruinous to a horse's inside.

Never allow of stimulants or masallahs indiscriminately ; and particularly avoid them whenever the least symptom of illness, or falling off in condition appears, for they are destruction at the commencement of many illnesses, although most salutary in other stages ; therefore, give them only when out in cold or rainy weather, or during hard work ; on which occasions the pint of Hodgson, sweetened with an ounce of ghoor, adding half a drachm of ginger, finely grated, and one drachm of anise-seed, whilst on the fire warming, is the finest cordial of any.

Never fail to have the feet pared once in every twenty-five days, if they grow quickly, or thirty days at most ; and the first day you observe the least contracting of the heels, take off the shoes and treat for "CONTRACTION."

Never picket your horse with two tent-pegs six feet apart, unless he is a weaver, or you are about to shoot him ; two close together are far more secure, and he is less liable to hurt himself : and if you must use heel-ropes, let them be very



loose at night, or many an hour's sleep will be lost from fear to lie down. I have seen many horses thrown completely out of spirits, and some out of condition, solely from this cause.

Look after your horse yourself: make much of him always on mounting and on dismounting; and *see* that he is made comfortable in his stall: by these means a bad-tempered horse will grow fond of you.\*

CHANGE FROM STABLING TO THE OPEN AIR,  
HUNTING, ETC.

As walled-in stables are now universal in every cantonment, and as little probability exists that you will alter those attached to your habitation to that form of structure most congenial to a horse's health, you may easily suppose, that when brought from one of these warm stalls to sleep in the open air in the cold weather, and no precautions taken, illness of some kind, as a matter of course, will follow. A warm bed-blanket, head

\* Lawrence, vol. i. p. 279. "The tempers of horses, like those of their masters, are various, endowed with a greater or less proportion of intelligence, sagacity, and feeling; and it is but too often the beast evinces the greater degree of rationality."

and body piece, wrapping well under the belly, should always be put under the ordinary jhool on these occasions, and the horse kept close under the tent-walls, out of the wind: this, with half a masallah at night, and taking care the gora-walla mounts at day-break, or before, (but without taking off more than the upper jhool,) for a good hour's walk, will be found the best preventive against those colds and coughs, which bring on a staring coat, debility, loss of flesh, and general bad condition.

If unexpectedly taken out during the monsoon, and rain should fall during the night, change the jhool, give a small masallah, and trot him for a quarter of an hour *immediately* the shower is over. A single light black Deccan jhool, *unlined*, (the best description of jhool there is next to the bed-blanket,) should always at nine o'clock during the monsoon be put on all horses unaccustomed to the open air, for though it may be close and hot, and no rain fall, yet it is generally damp. Keeping thick jhools over the body during the heat of the day to guard against the scorching sun is very pernicious, but a light dungaree one, padded half an inch thick with cotton, along the spine, is proper, and should always be worn when out in the sun, in the hot or rainy season. The shade of a tree, however, should be searched for: it is

cooler and more agreeable to a horse than even stable or pendal ; and hog-hunters should not forget this, for the continual exposure to the fiery sun throughout the day damps the spirits of many horses considerably. No one, but a native, can keep his hand upon a horse's back for ten minutes between the hours of twelve and three in those months, when picketed in the sun, without burning or blistering it : you may imagine, therefore, the effect on a high caste, thin-skinned horse, and tormented by the flies to boot.

Hunting a horse for two or three months on nothing but green food, only cut the day before for his forage,—not at all an uncommon occurrence,—or even half green and half dry, is as much the cause of those rounded shank-bones and gummy ancles, as being taken out of an idle stable, and suddenly put into training exercise, without gradual inurement. Hunters are often fed too much and too long on green food : racers may also be included. Considering that a few days' green meat is often wanted to recruit the strength after a severe cold or other illness, no horse kept solely for racing or hunting should have more than ten weeks' regular soiling throughout the year, and that at two different periods. As training usually commences in October, the month of April, or early part of May, and that

of June, or early part of July, will be judiciously chosen as the most proper season, during which time the grain should be decreased nearly one half, and the exercise never exceed a trot. The hunter can have his in August, September, and October, when the grass is long and rich, and the boar allowed to rest; very little being given during the months he is hunted. Green grass at coming in, during the first fall of the rains, is very weak and washy; but lucern, kept half buried in water, is equally good throughout the year.

To retain a horse, then, in hunting or hard-working condition, he must be kept chiefly on hard food: he should have a three-mile gentle canter every other day, and always be exercised, mounted, every morning and evening. If wanted after breakfast, allow but little water after finishing his morning's grain, and less grass, so that he may go out with both stomach and bowels tolerably empty. Feed and water in moderation (a gallon of water and a seer of ground grain, with a mouthful of grass, will be moderation,) if you halt to take your own tiffin; give first a small cordial drink, if the least fatigue is apparent; and, even whilst hunting, always allow two or three go-downs of water at any river or tank, if he thirsts for it; this little will not

hinder his galloping, but will prevent faintness. Invariably walk the last mile to cantonment, that he may return home cool, but never feed until he has been in an hour, and well cleaned above: then *see* that he has a cordial drink, masallah ball, or some gram flour gruel; likewise the boiled food according to his liking is made, to be given *after* \* he has eaten about two māps of dry ground grain; that a small dhool of water is offered half an hour before the dry grain is put into the trough, and another half an hour afterwards: *see* also that his legs are well malished while eating it, and that a good bedding is placed under him, in a loose stall. These little attentions after severe work are a horse's rights: he is sagacious enough to comprehend and appreciate them, and will amply repay you—if your ugly conscience does not—by cheerfulness of going the next time you require his services. When the fetlocks and feet are so dirty as to require washing, let it be done in warm (not too hot) water, and *see* that the legs are well dried and malished afterwards. If he refuses his food, it

\* The soft food at this late hour will produce a quick and wholesome distention of stomach, which will induce sleep, and prevent his standing two or three unnecessary hours to produce it by eating dry grass, which, at this late hour of night, is as bad for a tired as for a weak-stomached horse.

is most likely from your neglect of him after dismounting, and not the distance, unless you completely galloped him off his wind and brought him home hot: in either case, foment the legs in warm water, make a large soft bed, let him drink if inclined, and then muzzle for two hours, when he will probably have regained his appetite.\*

As to the considerate Christian, who, after a hog-hunt, or long day's journey, will carelessly hand his faithful steed over to an ignorant syce, perhaps to be tied up and left in the not unfrequent position of a bullock at the slaughter, the hind-legs being tugged a foot too far back-

\* There is one time that masallahs, or cordial drenches, prove excessively hurtful. When severe distress is occasioned by a long run, and you find that your horse can with difficulty go forward, give a drench on the spot, if you have it, loosen the girths, and lead gently home; but by the time he reaches his stall he will be feverish, and cordials or stimulants then may do serious harm. A seer of steeped ground grain in a good bran mash, sweetened by a lump of ghoon, a drachm of emetic tartar, and two of nitre being put in it, will, in this case, with a large bed and loose cool stall, be the quickest and safest restorative, repeating the same on the following morning. A clyster of salt and water must also be given on arrival at his stall.

When a horse drops exhausted, bleeding three or four quarts is recommended, giving also a pint of wine or beer, to enable him to crawl home after an hour or two of rest. When home, treat as above, with bran mash, emetic tartar, &c.

wards, and the head pulled down to the tent-peg, and he march off to fill his own greedy stomach—may nought but hot beer and tough meat welcome his palate for dinner, and the nightmare, in a buggy bed, be his only nocturnal repose!

“ THE HORSE TO HIS MASTER.

Take care of me a mile out, and a mile in.

Up the hill spur me not,

Down the hill push me not,

On the plain spare me not,

In the stable forget me not.”

#### MASALLAH BALLS.

3 drs. caraway-seed,  $\frac{1}{4}$  dr. mustard.

2 drs. cardamom-seeds,  $\frac{1}{4}$  dr. cinnamon.

1 dr. ginger, 1 dr. black pepper.

2 drs. turmeric, 2 drs. anise-seed.

The whole to be finely pounded, and baked up with gram flour and ghoon, into a thick ap. A little ghee or fresh butter can be added, if the horse is fond of it. Some of the light pleasant stimulants will frequently be eaten with a relish, if the horse is accustomed to bread and they are given fresh.

## CORDIAL DRINKS.

Any one of the above, given in half a pint or a pint of warm beer.

Two wine-glasses of brandy, gin, or rum, and three ditto of hot water.

Four wine-glasses of port or sherry, and two ditto of hot water, mulled with nutmeg, &c., just as you like it yourself.

## BEER TONIC.

2 drs. gentian, 2 drs. anise-seed,  $1\frac{1}{2}$  dr. turmeric,  $\frac{3}{4}$  dr. ginger,  $\frac{1}{2}$  dr. black pepper, in a pint of beer. One half of each article, in only half a pint of beer, is the proper strength to begin with after illness, increasing to the full dose in a week.

For a horse whose dung always remains soft after the grain has been reduced, and there is no apparent reason to account for it;—but not to be given until he has first had a mild warm drench of physic, and been afterwards fed for a fortnight on partly boiled grain, with a little gruel always added to his water,—this will frequently harden



the dung into balls of itself; and then the following ball or drench, given every other morning, when gradually brought on again to dry grain and dry grass, will help to keep it so. Ball:  $1\frac{1}{2}$  dr. gentian, quassia, or chredate,  $\frac{1}{2}$  dr. catechu,  $\frac{1}{2}$  dr. ginger,  $\frac{1}{4}$  dr. bhang,  $\frac{1}{4}$  dr. opium. Drench: this, mixed in half a pint of beer, or in one wine-glass of brandy, and three of hot water. These relaxed constitutioned horses should, every other evening, have their grain boiled, and not be fed wholly on gram.

A pill, the size of a pea, is often given by natives in cases of fatigue, or in gripes. The pill is thus concocted, but it requires a native to make it, who has been taught how to prepare it, and then it will keep for years:—Six drachms of solid arsenic, and six quarts of onion or moolee juice are put in a pot, and placed on the fire for eight hours, till all the juice is absorbed. About one drachm of the arsenic is lost in the residue, and the remainder is made into sixty pills; each pill, therefore, contains about five grains of arsenic.

The following is also given by them when a horse is fatigued, and necessitated to continue his journey on the following morning:— $\frac{1}{4}$  dr. opium; 1 dr. bhang; 1 dr. alum; 2 drs. googul; 4 drs. turmeric; 4 drs. ghoon, made into a ball with bajree flour.

## NATIVE MASALLAH BALL.

Ginger . . .	$\frac{1}{2}$ seer
Mustard . . .	$\frac{1}{8}$ do.
Black pepper . . .	$\frac{1}{4}$ do.
Asafoetida . . .	6 drs.
Garlic . . .	$\frac{1}{2}$ seer
Kala jeera . . .	$\frac{1}{2}$ do.; the cumin seed, or like it.
Kucha methee . . .	$\frac{1}{2}$ do.; the fenugreek do.
Umbee huldee . . .	$\frac{1}{4}$ do.; a turmeric-coloured zedo- ary.
Gora waj . . .	$\frac{1}{4}$ do.; also called butch; the or- ris-root, or like it.
Kootkee . . .	$\frac{1}{4}$ do.; a febrifuge, a small round stick.
Underjow . . .	$\frac{1}{8}$ do.; a small long seed, like the oleander.
Bungrekan . . .	$\frac{1}{4}$ do.; a white, mineral-looking substance.
Gulloo setwah . . .	$\frac{1}{4}$ do.; also called iskung, the root of a tree; colour, yel- low.
Lindee peepah . . .	$\frac{1}{8}$ do.; a long pepper.
Jerkatolah . . .	$\frac{1}{8}$ do.; a kind of flat bean.
Palas papra . . .	$\frac{1}{8}$ do.; a very thin flat bean, crim- son outside, pale yellowin.
Ajowan . . .	$\frac{1}{8}$ do.; a very small seed, half the size of a caraway.

This is enough for twenty balls. These ingredients should not be all made up at once, but kept pounded, a little being mixed up fresh with ghoon, when wanted; then, it will often be eaten, if the gora-walla keeps his fingers playing in the angles of the mouth: or, as there is nothing bitter or nauseous in it, a small quantity may be baked up in a large ap. If forced down, the balls must be soft, in the shape of an egg, but not more than two inches in length, nor more than three quarters of an inch in diameter. When a balling-iron is used, it should always be covered with leather, and the tongue very gently held.

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## TRAINING,

THAT is, for the turf, is the highest artificial state of existence the horse has to endure; and artificial means must be resorted to before any horse can possibly be brought on the course in a fit state to run a contested race with a chance of winning; but there is no necessity to follow in the wake of admitted errors, much less to practise absurdities, or to block up the animal's nostrils every night at nine o'clock with that

confounded little muzzle: when the muzzle is required, let it always be of the shape and size before directed.

Near one-fourth of those that are put in training, are never brought to the post, and no wonder: the very stable management of many is radically bad; too much attention is paid to trifles, and the essentials, the very life of training, neglected. Some are over-physicked and over-fed, and then over-physicked again; the bowels, of course, get out of order; the stamina are weakened; and the legs, as a natural consequence, fail: others are over-clothed or over-sweated; and almost all, over-stabled. Shutting the stable-doors close in India can only have one advantage, and that is, nobody can then be aware of the nonsense that goes forward within. How often does training commence on the slight, and perhaps delicately-constitutioned Arab, with two drastic doses of physic? Before two months are passed over, the bowels become greatly deranged, and the legs bunged: it is then declared, he (which ought to signify the trainer) "went all wrong;" and this wrong, or rather wronged horse, has to be physicked again, and laid up in bandages for a month, and perhaps blistered, before he can be got rid of. Sometimes a sturdy animal will stand a great deal of mismanagement, and yet ap-

pear at the post, and even win, if entered for a race that answers for him and running on a course suited to his make, &c., but this is not gaining by judicious training; much oftener, however, he fails to show his countenance, having been ruined by a regular adapted process, as the nasty dry coat, disordered inside, over-worked legs, and contracted feet most abundantly testify. A well-made horse, indifferently trained, may beat a bad-made horse well trained; and one of high caste, indifferently trained, may beat one of not so good caste well trained, &c. &c. It is through these, and various other distinctions, that bungling training is always hidden. Horses, no doubt, will continually go wrong when being fine-drawn in the last dangerous month; but, unless from accident, &c., it should not occur until that time. It is useless your attempting to train, unless you punctually visit your stables at every feeding and watering hour, (have a good watch, for you should never be more than five minutes out in your time,) then carefully inspecting the grain, grass, water, &c., and always look in the last thing before you go to bed, and the first thing at daybreak in the morning; for, however good your gora-wallas or jockey may be, you should never lose sight of the proverb, that "He who works with his hands, has seldom too much in his head."

Training in India and training in England are certainly different,\* but there is no difference in the principles; and those consist in condensing the greatest quantity of pure muscle into the smallest possible bulk, and so gradually to raise the muscular powers and wind to that degree of perfection that every atom of speed may be drawn out without any distress being exhibited, and without the slightest damage to the legs. In effecting this consists the whole arcanum of

\* The Arab, it has been justly said, cannot be trained in India as the English horse is in England: but the remark holds good reversed; the English racer could not be trained in England as the Arab is in India. The difference of country, climate, food, and the manner in which the two, from infancy, are reared, require an alteration of system, and render much of the artificial means pursued in England unnecessary; but the English race-horse, notwithstanding his wonderful performances, will, perhaps, not stand more training, more actual galloping, before he comes to the post than a high-caste Arab; and yet an English thorough-bred will easily outstrip the best Arab, in either pace or distance, and beat him in daily journeys, or continuance of labour; though, for these two last, the Arab might prove victorious, if on his own native soil.

Arab blood is a little in disrepute just now, owing to those that have been exported from this country having been of a very mediocre caste; but I do not believe that a thorough-bred, genuine, unblemished Arab horse, and certainly not a mare, of the proper build and stamp, would be objected to—the one for a stallion, and the other for a brood-mare; or either to be crossed with suitable-sized English thorough-breds—by any of the great racing breeders at home; and if twenty genuine, high

good training; and, by attending to the following, you may accomplish your end, and be able to cope with your neighbours; but if you enter on your sporting career, intending to train all horses in the same manner, without any regard to their peculiar constitutions and temperaments, their likings and dislikings, thinking the whole secret consists in making them thin, you will generally succeed, to your heart's content, in bringing down all the flesh and fat off the body, depositing it,

caste Arab horses and mares were now to be sent to our cold climate, and as judiciously crossed, and well taken care of, for the next fifty years, as the race now in existence have been from sire to son during the last half-century, they might equal in size, and surpass in speed, all those of the present day.

When last in England, my opinion was asked of a late importation from the Bomb Proof, price twelve hundred rupees, and if I thought he was a *real* Arab. I replied, to my confiding querist, I thought he was a real Arab, quite as much a real Arab as a cathammed horse he had purchased of his baker a few days before was a real English horse: and I recommended that he should embark that to his munificent donor in India in return, who would then have a real English horse, and a most equitable exchange, too. An Arab, to be worth acceptance at home, must either be very showy and handsome, answering for a lady's park-horse, or else have proved his blood by the very best performance, displaying besides the cardinal points of a good stallion; for the very best performance of an Arab, in India, would be very third-rate at Newmarket. A few of the genuine caste are annually imported to Bombay, but three parts to seven-eighths bred are what chiefly fall to our lot.

unluckily, about the legs and ancles : when degraded to this state, they should be shut up in the dark stable ; for such horses, " there is no place like home."

#### STABLE AND CLOTHING.

If fresh air and a cool stall are necessary to put a horse into condition, how much more so must they now be, when his powers are about to be exerted to the highest pitch they are capable of attaining ; but, as the more inducement to rest, and to lie down, a horse in training has, the better, close up the sides with tatties that he may not be disturbed during either the day or night. One single blanket jhool, made as described at page 115, with the single neck and head-piece, will generally, during all November, be quite sufficient clothing ; and these are only to be worn at night, and during the morning's walk. In December and January, if it should be cold at night, the thermometer below fifty-five degrees, another body blanket can be added at nine o'clock. It is sudden changes from warm clothing to no clothing, and from warm stabling to cold air, that hurt a horse, not a cool and uniform temperature. The thermometer, at noon, in the stall, during the cold months, varies from seventy to eighty degrees.



## STABLE MANAGEMENT.

Fresh air, without a thorough draught; keeping the stall cool, not cold; and the horse warm, not hot; good grooming; proper clothing; daily airing of the jhools; cleanness of litter; strict attention to the food and water, and punctuality in giving them; constant regard to the appetite; careful observance of the dung and urine; never disturbing while at rest; stopping the feet every day, and night; shoeing once in every twenty-five days; physicking only when actually necessary; sweating only when actually required; and enforcing the mildest of treatment,\* but at the same time never teasing with kindness, constitute the essence of stable management.

## DIFFERENCE OF FORM, ETC.

What description of horse are you about to train? Is he a slight, or a narrow-chested, or a flat-sided, or a delicate, or a hot fiery horse; or

\* Gora-wallas are seldom known to wrong a horse; though covering themselves, by mistake, on a cold night with his jhool, and pilfering a little of the evening's feed, are no very uncommon occurrences.

the reverse of all this? A powerful-limbed, fine-chested, well circular-barreled, strong, quiet-dispositioned horse: and is he young or old? for, according as he varies between all these, so must your training vary. Has he been only a short time out of the stables, and just advancing into something of that state we left him in at p. 136, under "EXERCISE," or was he half trained last year, and been kept in tolerably strong exercise, with proportionate hard food ever since? The latter has a decided advantage; and if he has been down the gulph two years, and half trained each year, he has of course a greater advantage still. Racing colts in England, it is true, come to the post at three and four years old, in fine order, most of the great stakes being for young horses; but a couple of years' extra hard food, with as much exercise as can be given, without rounding the shank-bone or bringing a windgall, adds no little to strength and vigour.\*

\* In India a little more soiling is thought necessary than in England; and, if so, then a less quantity of physic is needed.

## TIME REQUIRED TO TRAIN.

A horse in good hands is deemed capable of proving his utmost speed in five, or, if taken from grass and no exercise, in seven months: many for the Bombay turf, fresh from the Bomb Proof, are brought to the post in three months; but so short a period is not sufficient, unless they have been in strong and regular exercise for some time previous. Others, again, which have been laid up to fatten and get a decent external appearance, are in this state (only half way to condition) put into training exercise, in the hope of bringing out their full powers in as brief a space, by dint of sweating and galloping:\* these, like the former, are almost sure to get thrown over in some way or other, for should their legs prove of that solid texture to stand this hasty training, it is more than their bodies will—they “fly to pieces.” The sudden high feeding on grain is also apt to make them foul, or they grow stale, and, if there has been any taint in the pedigree, perhaps sully into the bargain;† besides, a three-part bred Arab,

\* See the note under “SWEATING.”

† A good caste Arab will sometimes sulk too; the General, of 1839 and 40, for instance; but then the cause, whatever it may be, seldom arises from strong training. The misfortune

though of the most willing temper, will never stand the training of the genuine blood. The legs, likewise, sometimes swell during the day at the commencement of training: this arises often from debility, and more from the horse not being ready for a good canter at all, than from the exercise having been too severe for this stage. Call, therefore, the first two to six months, according to the time it may have taken you to get into condition; when you have accomplished that, three to four more will be ample to carry him up to the mark.

#### A DAY'S ROUTINE.

Every morning, precisely at daybreak, your trustworthy horsekeeper (if he does not merit that appellation you had better change him, or sleep in the stable yourself,) is to look quietly in at the stall, to discover whether the horse is lying

is, they generally take it into their heads to sulk the day of the race, by which one would suppose the concourse of spectators intimidated them, or perhaps reminded them that this is the day of whip and spur. Gelding will sometimes cure sulkiness, though there should be nothing wrong with the testicles; and I should be inclined to risk that operation to backing an uncertain horse.

down; if so, let no noise be made; there he is to remain till he voluntarily rises: if standing up, put on the snaffle bridle immediately, for it is just at this time, after the night's rest, that he will commence nibbling at grass, one blade of which is hurtful, now that he is going out to exercise. First, with a perfectly dry towel, wipe the ointment, given at p. 206, out of the heels, or the dust and dirt may adhere, and the ointment become the cause, instead of preventing cracks. One gora-walla having been placed on each side, take off the night-clothes, and brush him down well for the space of five minutes; then replace one body jhool and head-piece, &c., or your English set, if you have them, putting the saddle above. The jockey or gora-walla is then to mount, ride him to the course, and walk him about, not at a snail's pace, nor at an amble, but in the manner described at p. 129, and at the utmost extent of his walk, for an hour and a half. The clothes are now to be taken off, the saddle placed well back, (the work properly of less than a minute,) and the canter given; after which he is to be walked till he is cool, then brought into the stall, and the head tied up *instantly*, one end of each snaffle rein being buckled forward to the wall, and the mouthing-bit in his mouth;

the heel shackles (with heel ropes attached, if he is disposed to dance from side to side,) having been also fastened, the muzzle put on, and one gora-walla, as at daybreak, placed ready on each side, take off the saddle, and wisp him down briskly with dry grass till every hair is smoothed, and the skin is becoming warm again under the belly as well as the body; that finished, do the same down all the legs and fetlocks, till warmth succeeds to the rubbing. The hands are to be used next, to get off as much hair as possible; the syees must dip them in water, and heave strongly against his sides, for after a month all the loose coating ought to be off. One man will now do, if you cannot spare two, to go on with the cleaning. Commence first with the curry-comb, taking care it is not too sharp, and that it is used very gently if the skin is at all fine or tender, the curry-comb being only to raise the dust: the hand-rubber second; and that can scarcely be laid on too strongly for some horses; but if the skin and coat are fine, and the horse restless, that must be gentle too. The hair-brush well applied thrice to the horse and once to the curry-comb, not thrice to the curry-comb and once to the horse, is to follow thirdly; a dry cloth to wipe away all the loose hairs, fourthly; and then

throw a light blanket jhool over the body, to be taken off about half-past ten, if the weather is warm, after he has finished his grain and grass. Now offer him the small dhool of water; take the chill off if it strikes you as cold, or he hesitates to drink it without, which is often the case in December and January, in the middle of the day as well as in the morning, especially if drawn from a well; then proceed to the legs, commencing with the hand-rubber, and finishing with the brush. Lastly, pick the feet out, and wash them in warm (not too hot) soap and water; but above all things, be particularly attentive to drying the heels quickly, not scrubbing them too strongly, with a coarse towel: when dried, put on the ointment. The eyes and face may be washed in the warm water too, with a large sponge, this being as comfortable to your horse as to yourself. The grain is now to be given; half an hour afterwards a dhool of water, and then four or five poolies, nine or ten pounds, of sweet dry grass. Half a bedding of litter is also to be thrown down, (but this may be omitted during the first month, unless an inclination to lie down in the day is observed,) always putting some of the old well-trodden, that has been dried in the sun, uppermost; for this answers three most useful purposes: it

prevents any long blades of the fresh bedding running into the eyes. The sight of two horses I have seen almost destroyed from this, the thick stem having nearly cut through the cornea: it is the softest, and therefore disposes him to lie down; and not being fresh, he will abstain from picking at it when he has finished his allowance of grass. Take away the remnant of the poolies at half-past ten, and leave him undisturbed in a loose state till half-past twelve. Water is then to be offered, the coat to be brushed, and the legs to be malished and shampooed. At one, the mid-day feed, with two or three poolies of grass, and he is to be left again to himself unapproached till half-past three or four. The stall at this hour is to be swept clean, water given, and the afternoon grooming to take place: the feet and heels are not to be washed again at this hour, but the morning's ointment is to be wiped out. About five o'clock put a light single set of clothes on, (during October and the early part of November he may go without any at some stations,) and have him led for an hour, though many, if strong or fleshy, will do much better ridden at this time also; then brought into the stall, well rubbed down with the hand-rubbers and hair brush, his feet picked, a little water



offered, and the grain given. The bedding is now to be made, a little of the ointment put in the heels, the clothing changed for warmer, if it becomes chilly at this time, and as much grass placed in one corner as you intend he should eat during the night. At half-past eight give a small feed of grain, varying from half a māp up to two māps, adjust the clothing, and leave him for the night, as he ought to have been during the day, in a loose state, unmuzzled, unheadstalled, and unshackled. Thus you have one day's routine, which is to be adhered to with but little variation so long as he is training.

About one morning in every seven should be a holiday, and Sunday will be a fitting one. Let the walk take place at daybreak, as usual, the saddle being above the clothing; and whilst out give free scope to his play, and allow him to gape, yawn, move about, and halt at his pleasure. The neck is neither now, nor at any other time, to be kept constrained with a martingale, which impedes the free action of the forelegs, and causes tripping. This annoying rein is sometimes resorted to to keep the horse's head in its proper place, and steady; but oftener because the rider is unable to keep his own in its proper place, and steady. Unless to a

bolter, or a ewe-necked determined stargazer, a martingale should never be used. English young colts, half-broken, may require different kinds of reins and martingales, but a decent rider can dispense with them all upon an Arab.

#### TRAINING WEIGHT, PHYSIC, EXERCISE, ETC.

You should always train with as near the weight as possible that he is to carry in the race; never more than an extra half stone, and that is half a stone too much for a slight horse. A strong-legged, straight-spined, high caste animal may not prove the worse for it, but a slighter horse will have his stride shortened an inch in the course of three months, and an inch in every stride will make two or three lengths at the end of a race.\* You ought also to have

\* There are very few Arabs in India whose owners' weight above ten and a half stone, that have not their action in some degree hurt; and a light weight, who is conscious of the nimble active step of a perfectly fresh nag, would detect at once a kind of shortened step, or slight deficiency of spring. By a perfectly fresh nag, I mean a horse that has been taken care of so long as he had a colt's tooth in his mouth, and never had more than eight stone on his back up to five years old. I have mounted numerous "beautiful light going horses" for sale, the property of owners of about eleven stone: in lieu, however, of fine airy action, they hammered away, in

some idea as to how much flesh your horse can go to training with, so as not to have to sweat off a whole lot, to the detriment of his health, and at the expense of his legs. This is difficult to tell, perhaps, with a new purchase, but a strong-built, good constitutioned horse, will naturally throw up flesh quicker than a slight carcased or irritable one; and a young horse, (if not quite a young colt,) up to seven or so, will throw it up quicker than after that age; but whatever description of horse you are about to run, he is to be put well in condition before the training commences; and if between the ages of five and eight, with a large carcass, it is not desirable he should be so plump as one that is rather young, or rather old, slight

comparison with fresh nags, like so many stone paviors. No man, of course, can be expected to acknowledge this until he has sold his "finest going horse he ever saw." Being a light weight, I would always willingly give three hundred rupees extra for a valuable horse, if he had never been mounted.

A horse frequently pulls up lame from some very trifling wrench or strain, or interfering knock. Halt on the very spot for half an hour, and apply cold vinegar, (a bottle of which should always be taken to the course,) then lead gently home: two days after, you will often find him able to take his canter again, if no subsequent swelling ensues. Further advanced in training, over a hard course, tenderness comes over the feet: poultice for two nights, and put a piece of narrow wax cloth, trebled, between the shoe and the crust: it will remain firm if the crust is rasped level for the shoe.

constitutioned, or flighty; for these large carcased strong horses, especially just at that age, of five, six, or seven, throw up flesh so quickly that their legs would be in danger, from the great work and sweating required, to draw them out fine. You must endeavour, therefore, at the end of condition (if your object is the turf) to have more or less flesh on him, according to circumstances.

Presuming, then, that he has been enjoying the cool pendal, devoid of heavy jhools; that his feet are well open at the heels; that he is to escape the antiquated and prejudicial drastic purgative balls, now that he is in good condition, and that you have full three months before the races, commence with one mild drench of physic—the high feeding, and strong exercise, about to be pursued, render this indispensably requisite, as a safeguard against the numerous little ailings that are so apt to arise and cause an overthrow. In accordance, therefore, with the universally adopted precept, that “no horse can run without physic,” give the aloes and Epsom salts, &c. ;\* and if he belongs to any of the first enumerated class, under “DIFFERENCE OF FORM,” he should not purge more than six or seven times, and he must have nothing but walking

\* See “PHYSICKING.”

exercise for the first three days after the physic has set. That over, proceed to the daily canters; and though he has been in strong exercise before, commence with only a mile and a half: in a week increase it to two miles; in a fortnight to three, and then quicken the canter, with due regard to the state of his body, &c., never urging him beyond a hand gallop during the first month; and during the whole time of training he is never to be pressed to his full speed, excepting at the trials; but the pace is always to go on so gradually increasing, without any irregularity in the distance, that his powers may be arriving at their highest pitch by the commencement of the last fortnight. If you are training for a long race of three miles, the morning's canter should be nearly four, in order to get "the length" well into him. If for heats of two miles, the canter should be full four, or there is no objection to your giving it of only the length of the heat, walking a quarter of an hour, and then repeating the same. If for a short race, or short heats, the gallop and distance may be proportionably quicker and shorter, but the exercise is never to be so severe as to produce the least distress. \*

You may put it down as a rule that every Arab, during the first two months of training,

should be above his work ; if there is an exception, it is where there are fine, broad, flat limbs, added to a well-formed barrel, and the horse a little sluggish or vicious, then an extra gallop may be taken out of him with impunity, and often with advantage. But the weak points must always be the guiding mark : for instance, when there is a fine round barrel and well ribbed home, yet slight or rather tied-in legs, the latter must be the guiding mark as to the quantity of exercise ; but when the carcass is too small, or flat-sided, with a long hollow flank,—making, perhaps, a rather washy horse—yet the limbs strong, the former must be the guiding mark.

#### TRIALS.

Towards the end of the second month it will be advisable to take a few trials, that you may be able to judge if he is likely to be qualified for the race you wish. Try a mile and a half with eight stone four pounds, and three days after, the same distance with ten stone, if he is to run for a welter. After an interval of another three days, try two miles and a half with eight stone four pounds, and after three days more, the same distance with the eight

stone four pounds again. From this you will learn how he carries weight, and whether he is capable of running a long or short distance best. In all these trials push him well, closing the heels to his sides if of the lazy tribe; but never punish unless he is a regular sluggard. Continue henceforward taking trials weekly, or every ten days. At one time start at score from the post, and keep him to his best pace the whole way: at another time bound off at a good gallop, but keep in hand the first half of the distance, then push him strongly the remainder, always having every half mile carefully timed: thus you will gain a wrinkle through what means he is enabled to exert his pipes to the most advantage, and consequently when to make play during the race.\* In all trials, unless the horse is of the most willing temper, and flies by a pull of the ribands and pressure of the calf, you should have a fresh nag in waiting at the last half-mile post, to accompany him home; but if you own a superior known good nag in your stable, which is in training, it is better to let him

\* The stride of a well-built running Arab of fourteen hands two inches, at the top of his pace, on a good turf level course, carrying from eight stone to eight stone seven pounds, will be found upwards of fifteen feet; and if, when at this speed, the hind feet overstep the spot the fore ones have quitted, he has superb springy, and undoubted running action.

start with the one in trial; there are so few that will exert themselves to their utmost without a competitor, and it is easy to tell the rider to hold-in the first part, if you wish it. Previous to taking a trial, or giving a sweat, always put the muzzle on at two in the morning, and the day succeeding a trial or sweat avoid putting him out, for fear of his legs.

#### THE GRAIN, GRASS, AND WATER.

Bajree and mhut is sometimes used at the commencement of training, but it is not so good as gram. If brought into condition upon it, give it twice a-day for the first fortnight; then once, so as gradually to discontinue it; and it may be crushed a little in the grinding-stone, the same as gram. Gram and oats, equal parts, would be good, but the oats are seldom procurable. Barley is the only other grain, and a very excellent one it is, but it must not be suddenly introduced. At each feed of gram give half a māp of barley that has been put in the grinding-stone with the gram, and daily increase it, so as that at the end of two months, one-third barley, and two-thirds gram shall be eaten at each feed. The grain that is relished most will generally be most easily



digested ; but gram and barley mixed is the most nutritious and best ; and with many horses you may go on increasing the barley to one-half. No grain must ever be given new ; it should be from eight to fifteen months old, and not more. The grass, of course, should be the very best, the gingwa, having a fragrant smell, and stacked after the rains, though a little fresh-dried Huryoli, that has been cut a few days, or a little fresh lucern, may be given at night with advantage ; putting it down at nine o'clock, when he has finished his last feed. Gram should be heavy, sweet, and fresh smelling, without holes in it, and a sufficient quantity of it laid in for the four months, that no change may take place in the quality. When the gram, or barley, are very hard, give them an extra turn in the grinding-stone, but do not moisten the grain. If too greedy a feeder, and any should be voided whole, chop one māp of Huryoli grass very small into it at each feed, and also add one māp of bran mash,\* for the rule is now, in a measure, to be reversed ; the grain must be proportioned to the exercise, and, there-

\* If he has a natural dislike to bran, even this handful must not be given, or it may have an opposite effect, and induce him to swallow down the grain still more greedily, in order to get rid of the taste of the bran. This would not be the case, when gram or barley is given while putting into condition all boiled and mixed

fore, everything must be tried to make mastication and digestion go on well. He should love both his food and his work, then he will thrive. Three drachms of rack or two of black salt, in every feed, is useful in training to all kinds of horses: begin with less. You must be careful to distinguish the difference between a poor feeder and a little eater: the horse that eats the little set before him with an appetite, increases in stamina, and keeps his flesh on, is no weak-constituted horse, and you should not give to such a one more than he actually requires. The dung should always fall in balls at the commencement of training, and you should endeavour to keep it of the consistence of cow-dung the whole time; but the high feeding and strong galloping, and the nature of gram itself, renders it very difficult, and, towards the last month, almost impossible to do so. Boiled coltee, one feed a day, is good for horses that are naturally rather lax, as well as others; or it can be given for the one o'clock feed; and again at half-past eight o'clock feed; this, with the cordial ball, will generally keep the dung of a proper consistence,

with the bran; then he would be obliged, more or less, to masticate the grain. A handful of linseed-meal, if not disliked, may be tried in each feed for this purpose, in lieu of the bran, and it is preferable.

if there is no over-feeding. The dung, towards the later periods of training, is occasionally found, not only a great deal too soft, but slate-coloured, and so slimy and agglutinated, that when lifted up with a cane it will hang on either side without breaking; hence the horse grows stale: this proceeds from bad stable management in various ways, irregularity, or over-feeding, particularly on gram, over-sweating, or over-work. The cure is bran mashes for two whole days, with four drachms of gum arabic in each mash; and a little green food in lieu of the dry grass: then the drench of physic, p. 100; and this, followed by a few carrots, and the beer tonic, p. 148, daily: boiled sago should also be frequently given afterwards with the *last half* of every feed, and a little linseed meal mixed in the first half, with the gram and barley.

The quality of the water requires as much care as the grain. A change to softer water may not hurt, but from soft to hard infallibly will, and that often too evidently. When it cannot be avoided, three gallons of hot water should be poured on three māps of bran, and strained off when cold; or a quarter of a māp of linseed, and a small lump of ghoor, may be boiled in a gallon of water, and then more cold water added; either will, in some degree, correct the change;

or a little chalk and clay may be added to the water, letting it stand for an hour in the sun. As to training on actual hard water, you might as well try to train on bricks ; a horse will not keep in condition upon it. River water should generally be chosen in preference to well water, as being softer, and ten or twelve degrees warmer ; but clean well water, if not harder or colder, is quite as wholesome. During the cold weather, water from a deep well, in the early part of the day, is as warm as river water. The water in the cold weather is frequently in the morning too cold for a horse in training to drink ; but by stirring your hand round in the dhool for two or three minutes, you may raise it to a proper warmth, without the addition of hot water, the smell and taste of which, to many horses, are very disagreeable. Placing a tub of water in the stall all day, so that he may drink *ad libitum*, is a mistake, arising out of the discovery, that, when water is always within a horse's reach, and before his eyes, he will drink less than when only watered twice a-day ; but the object is not only that he should never over-swill himself with water, but also that it should be drunk at that time that most facilitates digestion. This tub-system, like the English one of taking to a pond

to water, exercising gently a quarter of an hour, and then bringing back to the pond again, may answer very well for some horses, when putting into condition, but not for training.

## QUANTITY OF FOOD, AND HOURS OF FEEDING.

The grain is always to be given in a trough, never in a tobra ; and if ever he appears indifferent about it, take it away, and re-examine it : perhaps you are giving too much, or it may be you fatigued him in the morning. Never stand coaxing him, therefore, either to eat or drink ; for there are some horses that, by this means, may be induced to swallow against their inclination. See that both are clean and good, but if refused, take them away till next feeding or watering time.

The more grass that is put before a horse at those times, when it is not left long before him, the better, because he will have the advantage of picking the best out of a lot, and I suppose you do not require to be told that his taste in this respect should have precedence of yours. After morning's feed—as it is all taken away again at half-past ten, and after evening's feed, as you can take away as much as you like, when you look in at nine—it is of no consequence how

large a quantity you put down. The grass and water, as a rule, should be very gradually reduced, a little every month; and the grain as gradually (at the rate of about a quarter of a pound a week) increased; but the appetite for all must be consulted to a certain extent. If the digestion keeps pace with the appetite, and there is no looseness, well and good; do not overstrain his stomach in order to see how much he "*really would take in*:" if the appetite is better than the digestion, there must be reduction. The following (supposing he was in good condition when the training commenced) may be considered a fair quantity for a full-sized Arab, of fourteen hands two inches high, actually to swallow in one day and night.

	GRASS. lbs. Of dry Ging- wa and Hu- ryoli.	WATER. gallons. five bottles to a gallon.	GRAIN. lbs. Of gram and barley, or partly boiled coltee.
First month, in one day and night	9	8	10
Second month, in ditto and ditto . .	8	7½	11½
Third month, in ditto and ditto . .	7	7	12½
Last fortnight . . . .	6	6½	13

*Remarks.*—Gingwa grass, though very fine, is not English hay, neither is gram, oats; or a little less of the former, and more of the latter, might probably be considered a fair quantity.

Regarding water, the less a horse in training *is inclined* to drink the better, appears an acknowledged axiom: at the same time he is always to have as much as his appetite leads him to take, but not more than three gallons at each watering time.

Thirteen pounds of gram and barley is about seventeen seers, māps, or powder-canisters' full, when ground.

The Racer must be fed often, yet never till he is hungry, is a maxim in training; but as much as five māps of ground grain, about three and three-quarter pounds, may safely be eaten at each feed; and whatever more is required, to the extent of two māps (not beyond); it would be better to give it at half-past eight, to changing the hours to nine, twelve, three, and seven; the former interferes less with the rest during the day, and the small feed at half-past eight or nine may diminish the wish for grass during the night. Much, however, must necessarily depend on the horse eating largely, and swallowing too quickly. If a large feeder, and quick swallower, and no grass be chopped with the grain, five feeds

may be requisite, at nine, twelve, three, six, and nine; but the first, of nine, one, six, and half-past eight, (the last one always partly consisting of boiled barley or sago,) though not generally adopted, will answer best when properly fed. If you are a determined advocate for the hours of nine, twelve, three, and seven, you should enter upon that system when you commence putting into condition. Feeding at daybreak, even to the amount of a cutcha seer—the custom with some turfmen, who always muzzle at night—is not a good practice, unless for such a voracious feeder as requires to be fed six times a-day; and then, after being muzzled all night, it may be necessary. An hour before would, even then, be better than daybreak. If an English training groom feeds early in the morning, the exercise does not follow so soon after as it does in India; but there are as many little variations in different stables at home as there are in this country.

#### MUZZLE, WHEN REQUIRED, LEATHER DHOOL, ETC.

If at any time during training, notwithstanding the old bedding being uppermost, you find he eats some of it, either during the day or



night, after you have allowed a fair quantity of good grass, the muzzle, annoying as it is to some horses, must be used, but not put on till after nine, and then something must always be given at or before daybreak. In this case, however, you probably commenced training before he was properly in condition; for the appetite of a healthy horse is mostly moderate both for dry grass and water, and he can scarcely contract the habit of feeding too greedily on either the one or the other, while under this regular regimen of training. The circular barreled, large-carcased, strong horse, is more liable to overeat on grass than the light carcased; the last description frequently will not eat enough. Sometimes a horse will eat half his allowance of evening's grass by ten o'clock, and not touch it again till just before daybreak, and then fill himself: this should be discovered, and prevented by the muzzle being put on at two or three o'clock, when he may not be lying down. Always give the water four times a-day, allowing the small dhool once full at each time, with another half-dhool, if wished for, when he comes home in the evening, as advised under PUTTING INTO CONDITION. He will be inclined to drink less, on the whole, in this way, and thrive the better. You cannot be too particular with

your leather dhool: gora-wallas are always putting currycombs, brushes, and old shoes, in a wooden tub; besides, a tub is not half so nice as an old dhool, tinged with moss-like green from the continual use of water. A new tub should have a few shavings burnt in it before being used, and if once taken to wash the feet, a delicate horse will smell it for a week.

#### CORDIAL BALLS, HORSE-BREAD, ETC.

The belly is sometimes a trifle larger than is altogether compatible with training; the horse may not be at all too fat, occasionally the contrary, but the belly droops a little. Feed more liberally, both on grain and grass, *if* the bowels will stand it, and give a cordial every other morning; but even if with this rather drooping belly he should carry too much flesh, neither the grain, grass, nor water are to be stinted; (over-feeding, which is worse, you have been before warned against.) Give, in this case, six of the alterative balls, p. 101, one every other evening on return from his walk, and sweat gently once a-week. The belly will go up of itself, if you are not in a hurry.

If the dung becomes too lax, or you find

him getting heavy and out of spirits, and neither caused by over-feeding; or if by accident he has been a little over-fatigued, lessen the exercise a day or two, and give for a couple of successive evenings, at the last half-past eight o'clock feed, one māp of barley, boiled for two hours, one ditto of sago, and two māps of bran mash, into which put four drachms of gum arabic and two of rock salt. Give also the following cordial-ball at daybreak, and a little bajree flour gruel just before his first watering time in the morning. Cordial ball:—One drachm Columbo root, one drachm gentian, one drachm anise-seed, three-quarters of a drachm of ginger, half a drachm of turmeric, half a drachm of sulphur, one-twelfth of a drachm of bhang, and one-twelfth of a drachm of opium, all finely pounded, and mixed up with the inside of a couple of figs or dates: or boil the figs or dates, skins and all, in a little sugar and butter, then mix in the ingredients.

Cordial balls, two or three a-week, or half a one daily, are also indispensable to many delicate horses the last month in training; and the above is as good a one as at this time can be made up; yet it is very unpleasant to have to ball a horse continually, however expert the horsekeeper may be in doing it. A drench is

preferable. Half, or three-quarters of a pint of warmed beer is the best vehicle for these ingredients, or wash the ball down with the beer.

Horse-bread, though seldom made in India, is beneficial on many occasions during training. When the muzzle is put on at nine o'clock, and nothing given till feeding-time on return from exercise in the morning, there is a fast of nearly twelve hours. This is just six hours too long. Half a loaf of bread, given half an hour before day-break, two hours before the gallop, would be very serviceable to many horses, even when muzzled at ten or twelve o'clock. Three quarters of a pound of gram, or wheat-flour, with three quarters of a drachm of ginger, two drachms of anise-seed, and one ounce of ghoor, baked up together into a large thick ap, can be given instead. The following recipe will make good bread, which the horse will in time grow fond of, if habituated to it by very slow degrees, daily giving a small bit when hungry:—Wheat-flour and gram-flour, of each three pounds; finely-powdered anise-seed, two ounces; finely-powdered ginger, one ounce; ghoor, three ounces. Add the whites of a dozen eggs, well beaten together, and as much beer, well up, as will knead it. Bake in an oven into three loaves, and commence giving when one day old.

## BANDAGING.

Training the legs, it appears evident, from the fatness so generally observable about the lower parts, is fully as difficult as training the body; but if the latter has been properly physicked, yet not over-physicked, the feet kept properly short, and stopped, and the strong galloping not too hastily introduced, the legs may be brought out as clean and wiry, and the fetlocks as smooth and undented, as during the first canter.

Flannel bandages to the legs are undoubtedly of great benefit, inasmuch as cold applications strengthen the sinews, and keep the legs fine, but the wetting of the bandages every hour annoys the horse and disturbs his rest, and lying down is of greater benefit to the legs than bandages. Do not take it for granted that the less a horse lies down in the day the more he will at night: it is the nature of some horses to lie down easily, while others, though fatigued, cannot always be induced to do so, even with a dark, quiet stall, and nice bed. Neat flannel bandages, kept well wet with cold water, or a little nitre added, I am a great friend to while putting into condition; but, on the whole, it

will be quite as well to omit bandaging in training, unless the state of the legs seem to require it: which is too often the case, certainly. If bandages are used, do not put them on again after the walk in the evening.

Dry flannel bandages are used, by those who praise them, during the whole time of training. They may be of benefit to some legs; and they have this advantage, that, if so wished, they may be kept on during the night; and the rest is not disturbed by wetting them during the day. If worn, they must be put on a trifle looser than the wet bandages; but I recommend you to abstain from these, unless you have some reason for their adoption. Whatever bandage you choose, be careful to lay the folds even, commencing immediately under the knee, and bringing each turn as high in front as behind, so that the *bottom of each turn* of the bandage shall be fully as tight as the top of each turn. Each turn is to descend exactly one-half of the bandage, yet in such a manner that each looks straight in front. If any part of the bandage should be tighter than another, it is that close about the fetlocks, and not immediately under the knee; an extra piece, of inch-broad flannel, should be tied in front round there to prevent it coming undone,

*6 oz of Epsom Salts in the afternoon  
water - once a week - is a good thing  
to fine sweated legs -*

and the same also round the pastern. Dungaree bandages should never enter into a good stable, and a dry dungaree bandage is more likely to cause than to cure a bad state of the legs.

Warm flannel bandages, used for one hour after a severe morning's exercise, (put on after cleaning,) hot water being thrown on them every five minutes, will supple the joints, and prevent swelling; or, if you prefer shorter work, foment the legs with hot water, as hot as you can bear your hand in, for ten minutes after he is cleaned above; or let the feet, one by one, stand in the large tub from four to five minutes, with the water *well above the fetlocks*, not forgetting to thoroughly dry each quickly, as it is taken out.

## SWEATING.

Sweating would not have to be so much practised if the flesh were only brought to a firm and solid texture before being put into training. A strong dose of physic, and two severe sweats, will, in a fortnight, metamorphose a large carcase into a tucked up, gaunt belly; but Mr. Green would never attempt such pal-

pable mismanagement as this on a horse that was intended to run to win ; and the legs must be of good timber indeed not to thicken under it. Horses, whose legs have small back sinews, or which are tied in, or are crooked, will, notwithstanding every care bestowed on them, often show an evident inclination, after a good sweat, to counteract Nature's errors in some degree, by throwing out a little more substance about the hocks and ankles : heavenly creatures like these were never intended for such wicked work as this. All heavy sweating is dangerous to slight legs ; still, sweating must be had recourse to, if the horse is determined to get fat, when at the same time he is not overfed : it is an evil, but not so great as having to physic again. The use of sweating is to take off the carcase, or neck, any little extra flesh, not deemed necessary, and which the exercise fails to do ; and if done at the proper time, and not overdone, the benefit is often very great ; for, two of the grand desiderata are, to strengthen the legs and diminish the weight of the body : the continual regular exercise accomplishes the first, and this will effect the last. A gentle weekly sweat, towards the conclusion of training, is, therefore, necessary for every horse carrying too much flesh ; it finishes him off, and



draws him out fine; but with many of the light, high-spirited, over-willing ones, it may often be wholly advantageously omitted. If the neck is a little too fleshy, he should, from the commencement, have a couple of head-jhools on at the morning's gallop; the under one without ears; but they must be thick indeed to produce any visible effect on this part: the neck will fine a little of itself as the flesh becomes firm. If by nature a large bellied horse, and a little too fat when commencing work, he should always have one set of body-jhools round him at that time. Some horses, however, will carry more flesh about the carcase than others; and if it is only muscle well condensed, you perhaps have a trump, and too much sweating, or extra physic, to draw such a belly over fine, will often be only running to certain ruin. Loaded with three complete sets of jhools, a three-mile gallop, with a couple of half-mile spurts in it, is as long, and strong, and heavy a sweat, as the most gluttonous Arab would ever require, if not too rapidly brought forward. Some turfmen always give the exercising gallop in one jhool to every kind of horse: that may do very well in England, but is not so well suited for India; it is unnecessary to many, and does harm to others.

After a sweat, he must be quickly led home, —not to have other jhools heaped upon him, but all the lather immediately scraped off with nice bamboo hoops, not too sharp. The wispings must then instantaneously succeed, or there is great fear of his taking cold. When cleaned, and the jhool put on, give the cordial, if you think it required, and then mix half a wine-glass of ghee, not oil, with half a wine-glass of brandy, and, immediately the legs are dried after the washing in the hot water, rub it well in, about the hocks and ankles particularly. If the shanks should become sore, rub in the lotion, for tender shanks, p. 207.

A lot of frothy, greasy, dirty, scurfy stuff, occasionally comes from horses with any superfluous flesh that have not been sufficiently long in training; and some also from others during their first sweat; so, if on the second or third sweat he sweats quickly and with much of this, it is proof he is in a foggy state, and it must be repeated again in a week or ten days, giving four or five of the alterative balls, p. 101, one every other evening, as mentioned before under "CORDIAL BALLS," &c., if rather too fleshy; and if not too fleshy, one drachm of tartarized antimony, and a quarter of a drachm of ginger instead; but if he proves difficult to sweat,

(which he generally will by the third sweating-time, if in condition before the training was commenced, and you are not sweating too hastily,) and that sweat is like water, and he dries quickly after scraping, he is getting into prime trim, and will go on well without any more.\*

\* To train a horse suddenly up to the best of his mark the time will admit of, that is not in condition, but all soft flesh, needs a man that has seen a good deal, reflected a good deal, and has great confidence in his own knowledge; for, as mentioned under, "TIME REQUIRED TO TRAIN," p. 159, he is so very liable to grow stale, or go off his feed, or to injure his legs. After the mild dose of physic, sweating must here be commenced, as well as concluded with, if at all too fleshy, so as to get some of the useless fat out of both the inside and outside, before taking the stronger gallops. When brought home after a morning's sweat, extra clothes, contrary to what is stated above, are to be put over him for a quarter of an hour or more, until he sweats freely in the stall,—in this fleshy case it is necessary, for it acts as a protection against illness;—and when scraped down and dried, a fresh single set of blanket jhools is to be immediately put on, a small cordial given, and also half a gallon of luke-warm water offered: ten minutes after, he is to be taken out to have another quarter or half mile canter, and then brought in for the regular grooming to proceed. The time for commencing these sweats, the quantity of clothes that he ought to sweat in, the pace that he is to go at, and the length of the sweats, are all difficult affairs to manage properly, for the flesh cannot be taken off too suddenly even in the stall, and the untrained legs will not stand it being taken off in the gallop: on the whole, I would not risk the chance of injury to a favourite horse by this hasty training, however good the stakes might

## PHYSICKING.

The same kind of remark is applicable here as under "SWEATING." If in good condition, and no soft flesh, when put into training, the one dose at the commencement will generally be all that is required. The shōk that some people

be. If only two months are to elapse before he starts, a gentle sweat every week for the first three weeks, and then a couple of stronger ones the last fortnight, adapting the length, pace, &c., to the size and grossness of the horse, will be near about the proper time, observing that the first sweat should not take place until he can prove his wind,—until he can "blow his nose." After the first two or three morning canters, if he stands panting at the sides, and fails to throw the mucus from his nose, by that peculiar quivering snorting shake of the nostrils, a few days more should elapse before the first sweat is given. Grooms who pay attention to this work, I believe, say the nostrils should always be breathed in three quarters of a minute from the time he is pulled up; and that some consequence is attached to these minutæ, I know, for I well remember a groom anxiously looking out for the blow of a fine strong horse, that had been sick for a month, when finishing his first morning's canter, and though it did not occur for a minute or more, it at last came with a fine healthy quaver—a good sign the air-passages are clear—and he remarked, "If the tripes only improve, there is no fear of his bellows." A slight horse, when of delicate constitution, will, of course, not have the loud shake in his nostrils of a strong healthy one: and if the horse was thin when commencing this hasty training, the only sweatings must be the last fortnight.

have for physicking a month or so before the races, not because the horse is, but because they are afraid of his becoming too plethoric, is the cause of many overthrows and breaks-down. Whatever arguments you may hear to the contrary, this is not the time for preventive physic. The giving daily laxatives also at this stage, and that without a sufficiency of bran mash, is not only equally censurable, but dangerous and bad, fatal gripes often coming on just when the physic might have been expected to operate.\* A craving, large barreled, deep ribbed; strong horse, and that has to run a long race, may sometimes need a couple of doses of purgative physic, besides sweats, during a four months' training, in order to prevent him growing stale in his body, or round in his legs; but a slight, hot, irritable, or weakly one, is not to have every fibre pulled to pieces by drastic physic, even if he does throw up flesh too quickly: three of the alterative balls, p. 101, one every other day, with a couple of gentle sweats, a week between each, will suit much better; and he will then come to the post in better order, and run under greater advantage than if more

\* It is incredible what extraordinary things some persons do in training, which had I not witnessed, I should not have thought of mentioning them.

purgatives or laxatives had been administered; besides, it is two to one against physic at this time having the exact effect that is wished with a nervous flighty horse; it very commonly disagrees, or it operates too strongly; in either case more or less debility ensues, and a month is not sufficient to restore the strength. Should heats have to be run, a pound too much flesh, recollect, is far better, for a light clear-winded horse, than a pound too little. The last description of horses are generally easily purged, and, in lieu of physic, oftener need gruel with four or five cordial balls, or cordial drenches, every week: they should have gentle training, and not be put to trial until within five weeks of running, and then never overtasked.

If a slight sprain, blow, or other injury occurs; or the space between the shank-bone and suspensory ligament, and between that and the back sinews, should "fill," and there is no time to be lost, a drench of physic may be admissible, as the only means of cooling the leg and preventing loose flesh being thrown up; and the horse afterwards very gradually brought about by flannel, or *linen* bandages, *single*,\* being kept

\* In bandaging for a strain, let the bandage begin at the bottom of the pastern, close to the hoof, and go spirally upwards, instead of downwards.

on during the day, and wetted every half hour with the sal ammoniac lotion, p. 208. The greatest difficulty, however, always attends the bringing any "go-wrongs" up again, even in the best hands; and if the sprain has been at all severe, it is useless, as well as cruel, to attempt it, for you run the risk of ruining the leg for life.

As a general rule, then, no purgative physic should ever be administered within six weeks of running. When exceptions do occur, however short time you may have to spare, never be persuaded to ram it down the throat without some little preparation, for if gripes, in training, supervene from this cause, inflammation is generally close at hand. Bran mashes should at least be given for one day previous at all the feeds, and not more than two pounds of grass allowed until the muzzle is put on at nine o'clock; but unless a sprain or hurt has taken place, and the horse is about to be laid up, more than one day cannot well be spared for bran mashes without his going somewhat back in condition, for one full day must also be allowed after the physic has set, so as gradually to increase to the former diet, as any sudden introduction of dry grain into the bowels immediately the purging ceases is always hurtful, and frequently

dangerous. At daybreak on the following morning, water first, the chill being off, and then give the drench, p. 99, to which you may add three drachms of Turkey rhubarb: but as it is of the greatest consequence that a horse in training should purge, and not be merely sickened with the physic and thus so many days be lost, if a spoonful even is spilled in the giving, another should be added, and the clyster there recommended never omitted: wash the mouth cleanly afterwards with the salt and water, and if no strain has been the cause of the physicking, lead for an hour's walk. Read "PHYSICKING" in Part II. for the other precautionary treatment. If gripes take place, a quart of warm beer, with three drachms of ginger, six drachms of anise-seed, and three ounces of ghoor, may be first tried, not omitting the other directions, under "SICKNESS UNDER PHYSIC:" or the following ball, fresh made and soft, to be washed down with a little beer:—Balsam of capivi, half an ounce; anise-seed, four drachms; camphor, one drachm, dissolved in half a wine-glass of gin; oil of anise-seed, one drachm; the yolk of an egg; mix. Should the physic operate a little stronger than desired, take chredate two ounces, anise-seed two ounces; boil in three quarts of thin rice congee, strain off, and add to the three



quarts of congee one ounce of finely-pounded gum arabic, and a bottle of port wine : give a pint, cool, every two hours, allowing some wheat flour gruel also, but no water.

## CONCLUSION.

As horses in India are not plated on the morning of the race, shoe three or four days before : you will then see that the shoes fit well ; and always take a couple of extra shoes, with nails and hammer, to the course with you.

The day before running, never give too strong a gallop : a walk will be sufficient, if the slightest disposition to flag was evinced on the previous morning's exercise ; but it is most advisable your training should have been so managed that he should be in that state of trim and freshness to be able to take, and to require, a moderate canter ; but more should not be given.

When stripped for the race, the flesh on the quarters should be as solid as a camel's ; and it should be well on between the last false-rib and the haunch-bone. The carcass should be straight, the belly looking nicely drawn up, and every muscle fully developed. The coat should be glossy ; the hocks lean ; the legs and ankles smooth, and

cool: and this is all compatible with the foregoing directions, which will perfect the wind, and carry him through, if he can win, as well as if you had attempted a more mysterious and intricate system.

If you have to start late in the morning, muzzle at nine, or twelve o'clock, according as you know your horse, the same as if you were in the first race; but, when muzzled early, or starting late, a third of a loaf of bread should be given a little before daybreak, about two hours and a half before the running; some give half a māp, or a māp of ground grain: the bread, or ap, is preferable. When the race is run in the afternoon, as at Bombay, still you should muzzle the night before, or during the night; giving the bread, and a walk in the morning; only return early, so as to feed at half past eight, instead of nine o'clock; and grant his usual allowance of grain, and also an hour's eating of grass; but not more than a gallon and a half of water at each watering-time: muzzle again at half-past nine, while he takes his rest till twelve. At this hour, if eager for water, allow four quarts; brush him well, and shampoo his legs, and at half-past twelve give a seer of ground grain, and also the third of a loaf of the bread; or nearly double the quantity, if he is not to run till after five; muz-

zling again till three o'clock, when the grooming is to take place; and let the jockey that is to ride, give him a hundred-yard canter a quarter of an hour before starting; it will stretch his legs, and do him good.

Between heats, wine or spirits are given, with benefit. Four wine-glasses (thirteen wine-glasses to a bottle) of sherry or port; or a wine-glass and a half of brandy, mixed with two wine-glasses and a half of water, or the same quantity of gin and water, are the proper allowance. Choose from these four according to your fancy; but take care to give it fifteen minutes before starting. There is always half an hour between heats, so he will have a quarter of an hour's breathing-time to be rubbed down in, before swallowing it. Give it two or three minutes earlier in preference to two or three minutes later; this is of consequence, in order to have the desired effect; but do not half stifle him with "blue ruin" the instant the heat is over, or he will be flying under, instead of over, the turf.

If, after a hard-contested race your horse's powers should have been over-strained and his strength exhausted, rub him quickly dry, put the jhool on, and lead him under a tree, or to a cool, shady spot; then give four drachms of carbonate of ammonia, powdered, and made into a ball

with water and linseed-meal; after which, hand-rub the legs well, give a little water to drink, and a cold bran mash. Lastly, lead him into a cool, open stable, and leave him in a loose stall, with a large bed under him. Look in an hour or so afterwards, and if the distress should still appear to be great, the breathing quick, the flank tucked up, and the eye red, take away from three to four quarts of blood, and leave him again to himself for twelve hours.

The racer cannot be kept in that excited state at the top of his condition for any length of time: "At the top of condition, on the brink of disease." And if he has to run at other races five or six weeks afterwards, the exercise and food should be moderately lowered for a fortnight, and a few carrots, a little green meat, and evening's boiled food given; but whether he has been trained up to his full mark, or not, it does not invariably follow he is to be physicked again; that must depend on the state of the body, and when he received the last dose.

If two months are to elapse, the drench may be given, varying in strength according to circumstances, and followed by refreshing for a few days with carrots, green meat, &c.; but, if only half that time, it will be better avoided.

Coming out of training, never let your horse

down all at once, but always give a gentle canter every other day, for the first fortnight, gradually reducing the grain; and if after that time you deem physic necessary, give the alterative drenches, p. 100, without any calomel at night.\*

RIDING; ENTERING FOR A RACE; AND REQUITTING  
A QUERULOUS VISITOR.

Riding a race is as different from all other riding as a Scotch salmon is from all other fish; and as many aspirants for a silver cup, unable to afford racing establishments, both train and jockey their own steeds, let me advise you not to give up your own natural-formed seat for one you have never tried before. Do not stick your back

\* On a visit to a racing-stable, at half-past ten at night, containing four horses in training, I was introduced to the following stable-management. The first horse had heel-ropes on, and those so tight that they prevented him lying down. The second, a large and gross feeder, had the muzzle off—if a little hard piece of leather with circumference scarce sufficient for a dog's mouth can be termed a muzzle—fortunate, therefore, it was off, for the animal would have been stifled by morning. The third was half-strangled, from the tightness of the neck-strap of the head-stall. The fourth was smothering under two heavy jhools, and purging away from over-feeding; yet the old, careless griffin of a master had been successful the year before. Who shall despair to win after this?

up like an angry cat, striving to imitate William Buckle, or any other celebrated rider; but keep your middle person from the waist to the knees firm, yet flexible, grasping well with your thighs, and resting the weight mostly in the saddle, not in the stirrups; and if you have occasion to use the spur, apply it as far under the belly as the legs can reach. The management of the arms is even of greater consequence: you may have as strong a seat as a first-rate hog-hunter, and yet ride a horrible race, from not keeping a steady unjerking pull (not a dead pull) on the mouth. The man who has trained the horse is the only individual who can direct the most advantageous way in which he should be ridden; though the person that has daily acted as jockey, if not a goose, must, of course, be able to form some opinion likewise. If you are about to ride a hard-mouthed horse, always put a bit and curb on; and this should have been done in training: for if in taking his exercise-gallops he once runs away, he will be continually attempting the same trick: for having now got to know his speed, he will be on the look-out to break away with you in any part of the race, perhaps swerve, or bolt; and he will rarely struggle honestly when challenged for the rally in: but, while he should always be prevented from all chance of running off, you need not go

into the other extreme, and throw him out of his stride, either at starting, or during the race, by an endeavour to restrain him too much when from over-eagerness you see he will not suffer it; it is better, in these cases, notwithstanding any instructions you may have received as to lying by, to allow the horse partly to make his own race: you can try to ease him a little as this over-eagerness subsides. In riding a match, a good caste horse against an indifferent caste one, always, after the first hundred yards, rate him well the whole way so as to make him fairly shut up by the time he arrives at the distance-post; for his object, if he is up to it, will be (thus over-matched) to make a waiting race of it.

You cannot expect to carry off all you start for the first season of your novitiate: added to muscle, bone, blood, make, a good constitution, good training, and good riding, you must use the greatest discrimination as to entering for a long or a short race, or long or short heats, and also to the weights. Some horses will fly with eight stone, yet prove very sorry with ten stone. Some will carry the ten stone well enough for a single race, yet fail in heats. Besides this, the course being hard or soft, light or heavy, dry or wet, up hill, down hill,

or level, all and each make a wonderful difference in performance. There is not a horse in existence who, in some race or other, will not gain an advantage from one of these causes. Straight pasterns and tender feet, for instance, are not adapted to a hard course, nor slight legs and slanting pasterns to a heavy one; so, however confident you may be in having the best horse, never be too sanguine as to gaining: the best horse is rarely the best for all descriptions of races, weights, and courses.

Many beginners are much dissatisfied at strangers or acquaintances running down their horses. Nothing is so favourable. I never wish to hear a horse of mine praised, unless on the day of sale. If a man tells you the neck is too thick, say yes, and the nostril is a little too closed; if he declares the quarter to be short, say yes, and rather wanting muscle; and, for every point he complains of, you name another. By good management, neither too acquiescing nor too differing, you may turn to good account a querulous visitor of this kind, and lighten him of a gold mohur for each of his mistaken notions. These first-sight, guess-work observations, half to three parts wrong on an average, are frequently changed by the utterers themselves in a week, and although your stud may



not be perfection, yet, as all must be judged by comparison, it is not improbable that his and many others are much worse; consequently, instead of being discomfited, always give plenty of encouragement to whoever intrudes his critical remarks, strictly coinciding in their general correctness; and when the first pause occurs, ask, (if you know your horse,) what odds he will give against the ill-proportioned one? If he takes the bet kindly, do not be in a hurry; wait a day or two, then offer to double it: in this way you turn the tables on him genteelly. Every person has a right to look at your horse going his rounds, and also at rubbing down afterwards, when done on the public course. A bystander can never dive into the real state of his condition by a few minutes' superficial glance at the external appearance; it is more likely to puzzle and mislead,—so rather court than avoid inspection here. Your "dark" horse will not grow lighter by this little piece of complaisance; but if ever you admit either stranger, acquaintance, or friend inside his stable for half a second without being present yourself, it will be useless your denying your relationship to our "useful" friend at p. 272.

## STOPPING FOR THE FEET.

Equal parts of tar and kidney mutton fat boiled together, and first laid over the frog only, then cow-dung over the whole. A piece of sponge, or thick numbda, cut the shape of the sole, and kept over it by two transverse slips of bamboo fitting under the shoe, and wetted with hot water every three hours, should be used occasionally instead of the cow-dung, as it gives a nice soft pressure to the sole; a little of the tar stopping being always previously laid over the frog, if deficient, to encourage its growth and save it from rotting.

OINTMENT FOR THE HEELS, AS A PRESERVATIVE  
AGAINST CRACKS.

One pound of hog's or mutton-kidney fat, boiled down to the softness of ghee; two ounces of sugar of lead, well mixed in afterwards. The heels to be very slightly smeared over after washing at nine in the morning, and after being cleanly wiped out on return from walk in the evening. Whenever the slightest crack appears, always poultice for one day with a little fat, linseed,

bran, and a mashed turnip, carrot, or piece of melon, all boiled together, omitting the canter on the following morning: after which, equal parts of finely-powdered burnt alum and calamine powder, mixed, should be put on the cracks morning and evening, at the same hours as before, having first washed them with warm soap and water. The former ointment is not to be omitted.

LOTION FOR TENDER SHANKS.

The leg, from the knee to the fetlock, often becomes very sore after sweating or galloping on hard ground, and he flinches when being hand-rubbed, which he never did before. Having fomented each leg for five minutes, as high as the knee, in a tub of rather hot soapy water, and *gently* dried them, warm and rub in *gently* with flannel, morning and evening, the following lotion:—Boil four ounces of bruised poppies, and four ounces of nim leaves, in four quarts of water; strain off two quarts, and add three ounces of camphorated spirits.

**SAL AMMONIAC LOTION.**

Four ounces of crude sal ammoniac (almost always procurable in the bazaar), and one ounce of sugar of lead, dissolved in three pints of vinegar and one of water.

## PART IV.

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### TREATMENT OF A FEW DISEASES.

No one but a skilful professional man can possibly treat a quarter of the diseases of horses properly; and it often requires great experience, and the most able scrutiny, to be able to discern, or sometimes even to guess, what is the matter with a horse, or in what part he may be lame. This Part, therefore, while adapted to as full a practice as the most learned amateur can ever safely venture on, is written merely to prevent your outstripping the bounds of prudence: but these remedies must occasionally be resorted to, for, under inflammations and affections of the feet, &c., when assistance cannot be obtained, to do nothing, is to let the horse either die or be ruined. Remember, however, “prevention is better than cure;” and if you diligently read over Part III. once in

every month, and follow in that track, you will have little need for Part IV. But I must here again remind you, an Arab horse is not an English horse, nor is India England; and consequently, I advise you to adhere as strictly as possible to the directions I lay down, and not foolishly to alter the quantities of physic, or substitute other ingredients, or give them at different intervals than those prescribed, without first consulting some person who is capable of fully explaining to you the nature of the illness, as well as the virtues of the pharmaceutical compound.

In all diseases of the sudden acute kind, a horse's fate is decided in less than one-half the time a man's would be; consequently, you cannot be too prompt in rendering relief; at the same time, never commence with either lancet or physic till you have formed some idea of the nature of the malady; the grand art consists in "giving the proper medicine, in the proper dose, and at the proper time;" so rather stand by the animal for half an hour with the book in your hand, watching the symptoms as they gradually present themselves; for there are few amateurs who would not very frequently save their horses, if they would only wait and discover the disease, before commencing with their

ever-ready fleam and dirty aloes; after which it often becomes impossible to tell what the complaint really is; and hence the horse is lost.

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- CLASS I.      Sickness under Physic.  
                 Overpurging.
- CLASS II.     Gripes.
- CLASS III.    Cold.  
                 Sore Throat.  
                 Influenza.
- CLASS IV.    Strangles.  
                 Swelling of the Glands under the  
                 Jaw.
- CLASS V.     Fever.
- CLASS VI.    Inflammation of the Lungs.  
                 „            of the Bowels.  
                 „            of the Liver and  
                                Spleen.  
                 „            of the Stomach.  
                 „            of the Heart.  
                 „            of the Kidneys, the  
                                Neck of the Blad-  
                                der, and Bladder.  
                 „            of the Feet.  
                 „            undiscoverable.
- CLASS VII.   Red Urine.  
                 Bursantee.

## CLASS I.

## SICKNESS UNDER PHYSIC

is caused, firstly, by the ball breaking in the mouth, and half of it, perhaps, sticking there for a couple of hours; secondly, by the physic being too strong; thirdly, by the horse not having been sufficiently prepared, or by having been suffered to drink too much cold water, or to eat too much, or to other bad management.

*Symptoms of the first:*—The horse looks dull, hangs his head, and the saliva is black with the aloes. *Treatment:*—Give whatever remains of the ball, adding another drachm or two to it; for, at least, that quantity is generally slobbered away before it is discovered; and wash the mouth out with salt and water.

*Symptoms of the second:*—Looks dull, and hangs his head, as before; generally coming on towards the evening of the day the physic is given. *Treatment:*—If you think you have given too strong a dose, keep him perfectly quiet, with a bed, to lie down on. By not giving any exercise, and only very little grass and water when it



commences to work, it will, perhaps, not operate more than is desired: if it does, see "OVER-PURGING."

*Symptoms of the third*:—Looks dull, hangs his head, lies down gently, and occasionally, though seldom, rolls, throwing himself on his back, and yet without appearing griped. Pulse, natural. Treatment:—Leave this state alone too: it will sometimes occur, even when the horse has been properly prepared, and the physic good; but if the uneasiness continues for an hour, or more, throw up a clyster of warm salt and water. At other times, all the symptoms of severe gripes come on, and you must be quickly on your guard. Back-rake immediately; then clyster with two ounces of soap and two ounces of common salt, in a gallon of thin warm rice congee. Then drench with one drachm of oil of peppermint, or three drachms of finely-grated ginger, and one ounce of Epsom salts, in a quart of thin warm rice congee; and throw three gallons of hot (hot enough to burn and make him flinch, but not scalding) water over his loins and belly. The whole of this, excepting the back-raking, to be repeated every hour; trotting *gently* in the interval. If, after three hours, the symptoms should not be alleviated, and the pulse should rise beyond sixty, take away three quarts of blood, con-

tinuing the above treatment. Should the physic be operating, or immediately it begins to do so, there must be no exercise; the Epsom salts must be left out of the drench; and the clyster be composed of one quart of thicker congee, with a teaspoonful of laudanum in it.

#### OVER-PURGING.

If a horse purges more than twenty times, he must be considered over-purged; and, if unattended to, inflammation may succeed.

*Treatment*:—Continue the gruel, as directed under “PHYSICKING,” till you have given it six times; then change to the following: four drachms of prepared or common chalk, three drachms of gum-arabic, one drachm and a half of catechu, and one drachm and a half of anise-seed, well mixed in a pint of arrowroot, or thick rice congee: give this every four hours. The legs to be, also, well hand-rubbed every four hours; and, in the interim, bandaged up as high as the knees in flannel or grass; and, if the weather is cold or damp, the jhool and head-piece to be put on. He should have a large soft bed, but be muzzled, if inclined to eat; and not a particle of grain, grass, or water given. After three drenches

of the above, that is, after twelve hours, if the purging remains undiminished, add to it a quarter of a drachm of opium and a quarter of a drachm of alum; and give the same, also, by clyster, increasing the quantity of arrowroot in the clyster to a quart. There will be no danger of fatal inflammation, and very little of the bowels being injured, if this treatment is fairly adopted; but if you allow the over-purging to go on for twelve or eighteen hours, and then suddenly stop it with over-doses of opium or catechu, you will, most probably, as suddenly stop his breath at the same time. Should the purging, after another twelve hours, still continue unabated, the distress appear great, and the legs and ears cold, he will be in much danger: blister the belly, take away three quarts of blood, and give the medicine, both by mouth and clyster, every three hours.

*Blister for the belly.*—Half a pound of flour of mustard, one ounce of spirits of turpentine, two drachms of finely-powdered Spanish flies, and half a pint of linseed-oil; to be made into a paste, and spread on dungaree a foot square, with a jhool underneath it; or else spread on the inside of a sheepskin, and kept close to the belly for two or three hours, by bandages tied over the back.

On recovering from violent over-purging, a seer of well-boiled ground grain, (gradually increasing to two,) one mǎp of bran mash, and three drachms of gum-arabic, should be given at each feed for a week; wheat, or bajree flour gruel, sweetened, always at the first watering time in the morning; only two gallons of water at each drink, and that with the chill off; very little grass after each feed; a little dried lucern, of the previous day's cutting, is best; and for the first three days, not moved from his loose stall.

But inflammation may also come on from the badness of the aloes, (if the stuff sometimes procured from the bazaar can come under that name,) or from improper ingredients being mixed up, or from the physic being given when the bowels were overloaded; as well as being caused by over-purging, and the then deadly sudden stopping of the purging with strong astringents. The symptoms are the same. A quick small pulse, from fifty to eighty, and scarcely to be felt; heaving at the flanks; distressed countenance, and eyelids very red: the feet also become cold, and the hind leg, up at the stifle, sometimes trembles violently. Treatment: — Bleed four quarts, or more if the horse looks as if he could stand it: blister the whole of the belly, tying the jhool over it: put each foot in water, as hot as

he can bear, for ten minutes, drying each quickly as it comes out; then rubbing till well warm, and bandaging half way up to the hocks and knees in flannel. Clyster with thin, warm rice congee, if the bowels are not open; and drench, also, with a quart every hour. Put on warm clothing, if it is cold weather: but the irritation having been so great as to produce inflammation, he generally dies.

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## CLASS II.

### GRIPES

are caused by drinking cold water, especially when heated by exercise; or too much water immediately after feeding; or by exercise, immediately after feeding; or by over-feeding. By green food with the morning's dew on it; or too much green food suddenly given; or too much, even when accustomed to it. By change of grain. By the cold air. By want of exercise. Also, when the attacks are frequent, perhaps by some occult disease existing in the bowels.

*Symptoms.*—The pain comes on quite suddenly; he paws the ground; looks round to his sides; rolls, and rolls over; tries to strike his belly with his hind feet; and breaks out into a perspiration: gets up again in a few minutes, shakes himself, and not unfrequently begins to eat. Almost all these exist, in a greater or less degree; and, after a short interval, they all return. The belly is sometimes tremendously swollen; I have seen it like a bullock's struck dead by lightning, and he groans heavily.

#### GRIPES.

#### *Distinguishing Symptoms between it and Inflammation of the Bowels.*

The ears, and legs, and feet are scarcely ever cold till after the perspiration breaks out; and, when rubbed dry and warm, they do not become cold again till after he breaks out into another sweat. In inflammation of the bowels they are always cold, and though good friction will make them warm, they quickly become cold again.

The pain decreases after a trot; and when brought back to the stall he often stands quite

quiet for two or three minutes, as if perfectly recovered. In inflammation, the pain increases after a trot. There are, also, short intervals of ease during gripes, but none during inflammation.

In gripes, he often rolls quite over: in inflammation very seldom.

In gripes, he frequently commences picking at grass: in inflammation, I believe, never.

Rubbing the belly relieves the gripes: it increases the pain in inflammation.

The pulse is generally natural at the commencement of gripes, becoming fuller and quicker after a couple of hours or so, but not rising above sixty. In inflammation, it is never natural, but much accelerated at the commencement of the disease; not full, but small, and scarcely to be felt, and rising in four or five hours to eighty or ninety, or more.

Gripes, are not so often mistaken for inflammation of the bowels, as inflammation of the bowels for gripes.

*Treatment.* — Gripes from bajree and mhut. These are generally easily cured. Three drachms of finely-powdered black pepper in a quart of hot, (do not burn his throat,) greasy mutton broth.

Gripes from curby.—Three drachms of finely-powdered black pepper, and a quarter of a drachm of mustard, in half a pint of warm ghee.

Gripes from green meat.—Two drachms of finely-powdered black pepper, a quarter of a drachm of cayenne ditto, and one ounce of tincture of opium, in a pint of warm congee.

Gripes from cold water.—Four ounces of sweet spirits of nitre, and one drachm of finely-grated ginger, in a pint of warm milk.

Gripes when severe, or the belly is greatly swollen.—Six ounces of linseed-oil, three ounces of spirits of turpentine, one ounce of tincture of opium, three drachms of finely-powdered aloes, and one drachm of oil of peppermint, mixed.

Gripes when the horse is known to have worms.—Three quarters of a pint of linseed-oil, and three ounces of spirits of turpentine, mixed.

Gripes when the horse has sore throat or influenza.—Three quarters of a pint of linseed-oil, one ounce and a half of sweet spirits of nitre, and one ounce and a half of tincture of opium, mixed.

Gripes when the bowels are very costive.—The same as that for worms.

Gripes when the bowels are well open, or



loose.—One ounce of tincture of opium, and one drachm of oil of peppermint, or three drachms of ginger, in half a pint of warm congee.

Gripes which come of themselves.—One ounce of onion juice, in half a pint of warm ghee; or three drachms of aloes, and one ounce of tincture of opium, in half a pint of warm water. Or half, or three quarters of a pint of brandy, gin, or rum, in a pint of warm water.

Should the first dose of any of these not relieve in twenty minutes, always backrake; after that, clyster, repeat the drench, and throw hot water over the loins and belly, and continue doing these last three every hour, till cure takes place, trotting gently in the interval; but always give the same dose twice, or, if you like, thrice, before changing to another. If it is a severe case, and no relief obtained after three doses, that is, after two hours and a half, take away three quarts of blood.\*

The first clyster, may be two ounces of spirits of turpentine, and two ounces of onion juice, in a gallon of thin warm congee. When it is time for the second, if the bowels have not been opened, the clyster every hour should be four drachms of aloes, or eight ounces of Epsom

\* See "BLEEDING," p. 85.

salts, with six ounces of ghoor, in a gallon of thin warm congee; but if he has dunged freely, and the pain should still continue, each clyster should consist of two ounces of tincture of opium, in only a quart of warm congee.

Do not forget to change the clothing, if any has been on, that has become damp with the perspiration.

*Doubtful Symptoms.*—If the symptoms are not very clear, and you are frightened lest it should be inflammation, give half a pint of linseed-oil, and two ounces of spirits of turpentine, mixed, which repeat, in half an hour, with one ounce of tincture of opium\* added; and let the clyster be two ounces of soap, and two ounces of salt, in a gallon of thin warm rice congee.

For the first twenty-four, or, if the gripes have been severe, the first forty-eight hours after recovery, give only one māp of boiled grain, and two of bran mash, at each feed; the water with the chill off, and very little grass.

Gripes in India are very common, and the cordial quart of Hodgson, with three drachms

\* Half a drachm of unadulterated or purified opium, is reckoned equal to about one ounce of the tincture. If you have none of the tincture ready, macerate the half drachm in a small wine-glass of brandy.

of finely-grated ginger, six drachms of anise-seed, and three ounces of ghoor, is, after all, the most grateful cure: and one that is generally at hand. In giving it, you may omit the little point of mistaken politeness, you so generously offer to your friend at dinner, begging him “not to wait,” but to swallow it down, fixed air and all, the instant it is poured out. You are now only treating the inside of a horse, and that under disease, which, having too much wind already there, will not be cured by another quart being thrust down his gullet. Pour the beer into a clean cooking-pot; then put in the ginger, anise-seed, and ghoor, and stir it round whilst on the fire warming: in this way the stimulants become properly incorporated with the beer.

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### CLASS III.

#### COLD.

A thorough draught, or letting a horse stand still when heated by exercise, are almost as frequent causes of cold in this country as in England. Stripping off the jhool in the cold

weather, and then taking him out of the warm stall to be led for his morning's walk, or, at the gora-walla's option, to stand still, common sense must tell you will chill ; and suddenly bringing a horse from the open mydan, in cold weather, into a close Bombay stable, has an equal tendency to produce cold or inflammation. During the months that are very cold, if you purpose riding at daybreak, and your horse is used to a comfortable stall, always keep as much clothing over the saddle as he had on at night, until brought out, and then, when you mount, give a trot for the first quarter of a mile. This may appear over particular ; but, on getting out of bed in January, at daybreak, walk out yourself without dressing.

*Symptoms.*—The same as in the human being.

*Treatment.*—Decrease, and boil the grain, and mix one māp of hot bran mash with it, or more, if he is fond of bran ; decrease the grass also, giving lucern or green grass instead ; take the chill off the water by boiling a handful of linseed, and a lump of ghoor in three quarts of water, then adding to it two gallons of cold : clothe him a little warmer than usual if it is cold, but let the stall be open, well open, and cool, not damp. If

he coughs, put a drachm of antimonial powder, and three drachms of nitre in two wine-glasses of hot water, and then mix with three ounces of the simple oxymel, and give it twice a-day, before his morning's and evening's mash, which must now have less boiled grain in them; and do not exercise him beyond a walk. If the cold is very bad, he must not be moved from his loose stall, but clysters of warm soap and water used every other day. In some of these severe colds, when the pulse is much quickened, the glands below the ears perhaps swollen, the skin dry, and the running from the nostrils thick and plentiful, taking two or three quarts of blood is necessary, giving six ounces of Epsom salts in a pint of thin warm congee, every morning and evening, until it begins to operate. Should the cold and cough not be of this severe acute kind, but remain hanging on him ten days or more, and the pulse be under forty-two, leave off the antimonial powder, &c., and resort to the mild beer tonic stimulant, p. 148, once a-day, in the morning; giving also half a drachm of asafoetida in half of one of the fried vegetable bringals, every afternoon. A little of the Bambooke pulta, is also useful in this case.

*Simple Oxymel.*—Two pounds of honey and

a pint of vinegar, simmered together over the fire.

If a horse takes cold, and, in stead of becoming feverish, remains cold, perhaps slightly shivers, which sometimes happens, the hot instead of the cooling treatment may be begun with. A pint of warm beer, with two drachms of ginger and one drachm of camphor dissolved in it may be given, which repeat in twelve hours, the grain being boiled, and mixed with a hot mash.

A horse is seldom the better for having a cold hanging on him a week or ten days, and nothing is more annoying than hearing a favourite one coughing; therefore these easy directions should not be neglected: besides, as colds of all kinds (both feverish colds, when the pulse is quickened, the skin dry, and the breath hot, &c.; and those when the pulse is not quickened at all, and the running from the nostril remains thin and watery) are so liable to lay the foundation of rheumatism, or leave the horse more or less debilitated, and pre-disposed to take on other disease, the beer tonic, p. 148, should always be given every morning for a week after the cold has gone off; or when given during a chill or lingering cold, be continued for a day or two longer.

For a horse in training, or that is sufficiently

in vigour and spirits to work off a slight cold in his exercise, three quarters of an ounce of nitrous æther in half a pint of warm beer, may be given, for three successive nights: or four drachms of nitre, one drachm of black pepper, one drachm of anise-seed, quarter of a drachm of opium, and one ounce of honey or ghoor, to be put in the half pint of beer. A hot bran mash should be added to the evening's grain, for these three nights, and the bowels also once opened by a clyster consisting of one and a half ounce of soap and three drachms of aloes, in a gallon of warm water.

## SORE THROAT.

Severe cold, or a cold neglected, may have sore throat connected with the cough, which is sometimes a serious affair.

*Symptoms.*—The food is not properly swallowed, but lumps of grass are often quitted out again. The water is not freely gulped; he sips and slavers in the dhool; it, in fact, hurts him to swallow it. The discharge from the nose is thick; mucus is coughed up, and the cough is so painful that he sometimes stamps with his foot. There is a wheezing noise when he breathes,

and the glands below each of the ears are often swollen.

*Treatment.*—Take away *two* quarts of blood;\* in this case never more than three. Blister the throat. Give half a drachm of digitalis, one drachm of antimonial powder, and three drachms of nitre, dissolved in two wine-glasses of hot water, and then mixed in three ounces of the simple oxymel, p. 225, three times a-day. As much warm bran tea† as he will drink should also be given, and the dhool held up as high as the chest, that he may not be distressed by lowering his head. Not more than half a seer of boiled grain must be put into each bran mash, but lucern or green grass should be put in the trough as high as his chest. Dry grass irritates the throat; so, if no green meat is to be had, more boiled food, as turnips, carrots, &c., should be allowed instead. He must be left to his loose cool stall, with a bed, and well jhooled at night and the early part of the morning, if it is the cold weather. The digitalis is to be discontinued after three days, and the antimonial powder and nitre, after six. The bowels must be opened by clysters every other

\* See "BLEEDING," p. 85.

† See "BRAN TEA," p. 97.



day, consisting of one ounce of soap, and four ounces of Epsom or common salt, in a gallon of warm water.

## INFLUENZA,

fortunately, is hardly known in India ; but severe colds and sore-throats are not uncommon, both in the hot and cold weather ; and if these were properly attended to and taken care of at their commencement, and the horse, on recovering, neither over-fed, nor allowed to drink too much gruel, which often brings back the complaint in all its force, requiring a second bleeding, added to the greatest care, to save him from danger, we perhaps should see nothing resembling it. The real epidemic may, however, some day be transported here : it is said to be very infectious, and that when it does visit a neighbourhood, many cases will occur about the same time.

*Symptoms.*—At the commencement of the disease, the coat is a little rough, the breathing somewhat hurried, the eyes inflamed, and the throat sore ; hence, the swallowing is difficult, the food and water being sometimes returned through the nostrils : a discharge also takes place from them, as well as from the

mouth, and the legs are swollen. Fever is present, and great weakness. The pulse varies, being in some patients only fifty; and in others, ninety; depending on the degree of fever.

*Treatment.*—If the pulse is full or wiry, and above fifty-five, and the membrane inside the nostril red, bleed three quarts;\* and if the dung is hard, give three-quarters of a pint of linseed-oil, with a drachm of ginger in it. Clyster with a gallon of warm water, and four ounces of Epsom, or common salt. Insert a seton in the chest, and also at the top of the neck, and blister the throat. Foment the legs with hot water, and keep the stall cool. The following morning, if the pulse still continues full and quick, and the membrane inside the nostril is redder than usual, bleed again three quarts; but no more purgative physic is to be given. If a second bleeding is not required,—or, if it is, then, after twenty-four hours, give three-quarters of an ounce of carbonate of ammonia, and three-quarters of an ounce of nitrous æther, twice a-day, at eight and four: also, two drachms of nitre, one drachm and a half of gentian, one drachm and a half of colombo-root, and one drachm and a half of ginger,

\* See "BLEEDING," p. 85.

twice a-day, when the stomach is a little empty, at twelve and six: these last balls may be washed down with a half pint of beer, or a quarter of a pint (a wine-glass and a half) of port wine, mixed with a wine-glass of water. Clysters, if the bowels are not open, and hot fomentations to the legs, must be used every day; and if the legs continue much swollen, they are to be scarified. The first twenty hours, while the physic is in his inside, feed on sweet fresh bran mashes and *a little* dried green food: after that, as it is the real epidemic, liberally on gram-flour gruel—three quarts, three times a-day—boiled g n with bran mash, boiled carrots, fresh lucern, &c., and also thin gruel for drink—not water. Continue this for a week or ten days, when improvement or death will most probably have taken place; if the former, lessen the medicine daily, and be careful to keep the bowels open with clysters.

## CLASS IV.

## STRANGLES.

Strangles occur between the age of one and five, oftenest about three. There are three kinds of it. Strangle fever, without any abscess; true strangles with the abscess under the jaw; and bastard strangles, when the abscess bursts inwardly; but they are not so common in India as in England.

*Symptoms.*—A slight fever, dulness, and disinclination to eat or drink occasionally comes over colts at two or three years old, either with, or without any cold, which keeps them weak and sickly for some weeks; and no abscess forming in the channel to mark the complaint, we are at a loss to account for the ailing: it may possibly be the strangle-fever. When an abscess forms in the channel under the jaws, then he has the true strangles; and it is most desirable that it should form, ripen, and be discharged; for the constitution is then said to be renovated by it. There is always a nasty dis-

charge from both nostrils, with a choking kind of cough. When the abscess forms and bursts inwardly, it is called bastard strangles—though other forms of the complaint, and when it hangs long upon the horse, also come under that name. Sometimes during the strangle-fever an abscess, or, perhaps two, will form, not under the channel, but in some part of the body, such as the thigh, groin, &c.: this, fortunately, rarely occurs, as it renders the complaint very puzzling. True strangles, from mismanagement, may run into bastard strangles, and that into glanders; but bastard strangles has never the good luck to run into true strangles.

*Treatment.*—The strangle-fever, either with or without a cold, is to be treated the same as under “COLD,” feeding on warm bran mashes, green food, sliced carrots, &c.; and if there is sore-throat, the same as under “SORE THROAT.” The true strangles is to be treated the same; but as the bleeding delays the abscess forming, he is not to be bled, unless the ears and legs remain cold, which shows that the lungs are becoming slightly affected. A tobra (not the one he eats out of) should be kept constantly half full of bran mash, and hot water poured on it every hour:

the head being held over; this will promote the discharge from the nostrils, and be of great benefit; but if the breathing is difficult, this cannot be borne. Immediately the abscess begins to form, the liquid blister is to be rubbed over it, and when soft and pointing, opened with a lancet; but the matter is only to be very gently pressed, never forcibly squeezed, out. A poultice, kept continually warm, is then to be applied over the whole channel for two or three days; after which, a little Friar's balsam, or tincture of aloes, is to be daily squirted into the sore. Should the abscess burst of itself, enlarge the opening. When the abscess bursts inwardly, still promote the discharge from the nostrils with the tobra of hot mash, feeding on green food and mashes. If the abscess forms in any other part, instead of under the channel, treat the same. After the strangles are over, a mild dose of physic is always requisite, followed by the "BEER TONIC," p. 148.

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#### SWELLING OF THE GLANDS UNDER THE JAW.

After five years old, a tumour sometimes forms in the centre of the channel under the jaw, without being accompanied by fever. A warm poul-

tice should be applied till it becomes ripe, when it is to be opened, as before mentioned, with a lancet, and healed with the Friar's balsam.

A large hard swelling occasionally remains in the middle of the channel, the effect of strangles, cold, &c. Blister it, and if not lessened after a month, repeat the blister, or rub in the discutient lotion. If the glands below the ears remain hardened, treat them the same.

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## CLASS V.

### FEVER

is as common among horses as ourselves, and the after effects of it equally debilitating. More horses, I am inclined to believe, die from the effects of fever than from attacks of any of the acute inflammations; and for this reason, the danger is so often overlooked for the first three or four days, until inflammation of the lungs or bowels is approaching; then death is too near for bleeding or physic to be of any avail.

*Symptoms.*—The three principal and distinguishing symptoms of fever are, the great disinclination to exercise, the almost total loss of appetite, and the coat feeling dry and hot, and generally rough also, about the ribs. There is a peculiar soostiness all over the animal, but no expression of pain. A direct cold fit sometimes first occurs, as with us, and this comes on quite suddenly. The mouth is dry, the breath foul, and the tongue pale. The pulse may be quickened, or it may be weaker, or almost natural; but, during the fit, the legs, like the body, are more or less cold. When the cold fit is over, a warm one frequently succeeds, and a slight perspiration. In this state he remains, the fever often returning on the following day, and near the same hour. He is also generally flatulent, and the bowels are constive, but occasionally they scarcely at all alter, and the difference of warmth in the feet, some hot and others cold, often not at all remarkable until the fever has existed some days: but if at all thin before, the falling off in flesh and great prostration of strength, will be clearly manifest in forty-eight hours.

*Treatment.*—During the first cold fit, (not when the warm one has commenced,) if a quart



of warm beer, with three drachms of ginger, or a pint of port, and a pint of hot water, with a little spice were given, a jhool put on, and the horse gently trotted in hand for a quarter of an hour, (or let the trotting go on while the wine or beer is preparing, only be quick about warming it,) the fever might be nipped in the bud, and no more seen of it. Three horses I have cured in this way; feeding on bran mash and green food the following two days. If unfortunately not observed at the onset, (which it rarely is, except by a man who lives half the day in his stable,) bleed\* five or six quarts if the horse is fat and the pulse much quickened; but if the pulse is not much quickened, or not above forty-five, never bleed, for the horse will frequently sink under it. Always backrake, then clyster. Give half a drachm of calomel, one drachm of emetic tartar, and one drachm and a half of aloes, made into a ball, and ten hours after, another ball of the same. After ten hours more, give half a pint of linseed-oil, or six ounces of Epsom salts in thin congee; and if the dung is not softened, repeat it after another ten hours: nothing more, however, than three or four extra evacuations are allowable; purging is strictly prohibited. If the pulse was high and

\* See "BLEEDING," p. 85.

bleeding has been resorted to, half a drachm of digitalis, one drachm of emetic tartar, and three drachms of nitre, are now to be given, morning, noon, and evening, in about three ounces of warm water; but leave out the digitalis after two days, or three, at most. Two drachms of cream of tartar may be given once in the day, as a cooling drink, when the digitalis is left off. The food must be warm bran mash, with a little green grass or lucern; a little thin gruel occasionally; and the water have the chill off. Clothe warmly, if the weather is cold, making a large bed. The emetic tartar and nitre are to be left off when the appetite returns, and he becomes a little lively; but if the attack has been at all severe, you must not think of mounting him for a month at least, not even for a walk. Beer tonic, p. 148, to be commenced a week after recovery.

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## CLASS VI.

### INFLAMMATION OF THE LUNGS.

BEFORE commencing with inflammatory diseases, I must caution you against taking away a

little blood, as a preventive when inflammation is coming on : this will render the disease very confused to you, whatever may be the case with a professional man. Wait an hour or so, until the disease fairly shows itself ; the symptoms will then be fully developed, and you will know what part is attacked ; and one full bleeding at the proper time, with the other treatment steadily pursued, will generally make a safe and speedy cure.

After an attack of inflammation of any vital part, it will take a fortnight, and often a month, before the horse can be again mounted. Boiled food ; a little sweetened gram flour gruel in the morning before the first watering-time, and green grass, lucern, or carrots, are always needed to recruit the strength ; but nothing is more dangerous than surfeiting with any kind of food after these attacks, in order to raise the condition quickly. Starvation, that is, as far as keeping the horse hungry, is the only safe system for ten days after recovery : the muzzle must be used at night if the appetite increases too quickly ; but if, on the contrary, the appetite should flag, and the spirits not revive in that time, the beer tonic, p. 148, should be immediately resorted to ; and even if the recovery is perfect, still, after ten days or so, a few mild

beer drenches should be given. There is no disease in India, whether cold, fever, inflammation, or any other, for which blood has been abstracted, and whether the appetite is regained or not, that tonic stimulants, of some kind, are not beneficial afterwards; and the beer tonic, in proper quantities, is as good as any; the danger consists in commencing it too early.

INFLAMMATION OF THE LUNGS is caused by sudden changes from cold to heat, rarely, it is said, by the contrary; by over riding; by drinking cold water when hot, &c. It occasionally comes on quite suddenly: at other times the horse may have ailed a day or more previous to the attack.

*Symptoms.* — Veterinary writers have fortunately given us two symptoms, which mark this disease so clearly, that by common attention we can generally discover it: always, I may say, if not complicated with any other disorder. “The legs and ears are cold; of a deathly coldness; and the horse persists in standing, or, if he lies down, it is only for two or three minutes.” The pulse is oppressed, rising to seventy or a hundred, and often imperceptible. The inside of the corner of the nostrils becomes of a dark crimson colour, the nostril itself being expanded, and the breathing greatly distressed. He

appears stiff all over, and gently but anxiously turns his head round to his sides. Sometimes there is a cough ; sometimes none.

*Treatment.*—Bleed six to eight quarts,\* three to four (according as the horse is large or small, fat or thin) from each vein, *at the same time* ; and it is particularly recommended in this inflammation to bleed from a large orifice with a broad-shouldered lancet, that the blood may flow freely and quickly. The bleeding over, back-rake ; then clyster with one ounce of soap and four ounces of Epsom salts in two gallons of water, and give three drachms of aloes in half a pint of thin congee. Soak the feet and legs in hot water,

\* See “ BLEEDING,” p. 85. Bleeding a particular quantity may appear to veterinarians equally as objectionable as giving a particular quantity of any medicine. Bleed, they say, till the pulse rises, &c., &c. I once saw a man bleed, and take a teacupful away, when he said the pulse rose. Bleed till the pulse rises, is about as useful a piece of information to many people as what I once received from a surgeon I had written to regarding a horse that was dying from an inflamed vein ; first, said he, “ dissect it out.” Bleeding a given quantity may, in some cases, be bad ; but a quart too much or too little is better than a gallon too much or too little, and a certain quantity must be laid down. I have done the same with the dangerous medicine digitalis, &c. ; for an acquaintance of mine once gave hellebore to a horse (strictly according to some professional book, he said) till the head drooped. It was done, however, too effectually ; the head drooped for ever.

then rub them well till dry, and bandage them up to the knees and hocks in thick flannel bandages, or cover them round thickly with dry grass. If it is cold weather, put on a warm jhool; but the horse must remain in as cool a place as possible; if in a stable, every door and window should be open. In six hours after the bleeding, should the breathing still continue laborious, the ears and legs cadaverously cold, and he still stand in that peculiar stiff position, with the forelegs rather wide apart, open both veins again, and take from each another two or three quarts, and give half a drachm of digitalis, one drachm of emetic tartar, and three drachms of nitre, made into a ball with linseed meal and liquorice water, or put them into a drench. Two ounces of the simple oxymel,\* are also to be given once every eight hours; and clyster every day, for three or four days, if the bowels are not open, with one ounce of soap and four ounces of Epsom salts, in two gallons of warm water. Nothing must be given to eat for the first forty-eight hours but *cold* bran mash, (boiling water poured on bran, and allowed to stand till it is cold,) a handful of green meat occasionally, and the water with the chill taken off. The digitalis must be left out after two days;

\* See p. 225, for the " OXYMEL."

*i. e.* after six doses, and the emetic tartar and nitre after three days.\* Beer tonic (page 148) to be commenced a week after recovery. If you blister the sides, the proper time for it is an hour after the first bleeding; but never do this in the hot weather, nor during the rains, unless it is cool.

## INFLAMMATION OF THE BOWELS

is common enough everywhere. The causes are, cold suddenly applied; cold wind blowing on a horse's belly, picketed outside, that has been accustomed to a stable; or a draught of wind when under physic; drinking cold water, when hot; costiveness, unattended to; which last is often produced by gora-wallas, when *en route* by themselves, not searching for good water.

*Symptoms.*—The horse lies down, apparently

\* A horse I had was attacked with violent inflammation of the lungs at six o'clock in the afternoon: he stood stiff as a post until two the following morning, when he fell, to all appearance, dead, and cold as marble all over. I was dining out, and did not return till that hour, but a veterinary surgeon was at hand. He was bled in both veins, back-raked, and clystered. Five hours afterwards, both veins were opened again: the horse recovered, notwithstanding the severity of the attack and the neglect of the first eight hours.

without much pain; after a few minutes, gets up, and then lies down again. The breathing is a little quickened; the pulse, at the commencement, increased to sixty or seventy, and the ears and legs rather cold. In the course of an hour or two all these symptoms rapidly increase; the pain of the belly becomes very great, which is fully evinced on pressure; the pulse rises to eighty or ninety, and the ears and legs get much colder. His haggard countenance is often anxiously turned towards his flanks, as he groans and rolls; but he seldom tries to strike his belly with his hind feet, as in gripes. The bowels are always costive; the belly is sometimes swollen, and the urine, if passed, is in small quantities, and with pain. The mouth is hot and dry; and the eyelids red, looking gorged with blood.

*Treatment.*—Bleed\* from six to eight quarts; three to four quarts (according as the horse is large or small, and fat or thin) from each vein at the same time. The bleeding over, back-rake, and clyster with six ounces of Epsom salts, dissolved in two gallons of thin rice congee. Foment the belly with hot water for half an hour, while a blister is preparing to be applied,

\* See "BLEEDING," p. 85.



about a foot square. Give half a pint of linseed-oil, which repeat every seven hours till an evacuation takes place; but no purging is allowed here any more than in the previous disease; merely the removal of the costiveness, so as to cause a softened state of the dung. The legs must be well hand-rubbed to restore the circulation, and then bandaged with flannel or tied round with grass. A jhool, if it is cold or damp, should be put over the body, but the horse kept in a cool place. Warm bran mashes, with two drachms of finely-powdered gum-arabic in each mash; linseed or bran tea; thin gruel, and a little green grass, is all the food allowed for the first three days. If the bleeding has been properly performed, and none of the other treatment omitted, the force of the disease generally yields in six or eight hours; but if after that time the inflammation should not be subdued, and the symptoms of uneasiness and pain continue as at first, bleed again two or three quarts from each vein, and draw the firing-iron over the belly two or three strokes, a little behind the blister. The costiveness must be fully removed before the inflammation will subside; but immediately the dung is softened, no more physic is necessary, nothing but a soothing congee clyster.\*

\* A handsome Arab, that had gone through a morning's

## INFLAMMATION OF THE LIVER, OR SPLEEN.

The first of these is much more common at many stations than the preceding disease. The causes are, the climate, added to not giving physic, or giving that which is of no use, when, from a foul habit, there has long been evident necessity for it.

*Symptoms*—Are somewhat between inflammation of the lungs and bowels. The pulse increases as the disease advances, and rises to seventy or a hundred. The horse will sometimes stand, but not with his forelegs so fixed and apart as when the lungs are affected. The eyes, mouth, and nostrils are always more or less yellow; but the legs are not so particularly cold. The bowels are always costive, unless the inflammation is very trivial, and then there may be a slight looseness. The head is, generally, being continually turned to the side that is affected, and which, if pressed on, near the middle of the false ribs, will be painful.

parade without the slightest sluggishness, was attacked with inflammation of the bowels when led to his stall. The bleeding, &c., having been delayed for twelve hours, he died on the following morning.

*Treatment.*—Bleed \* from six to eight quarts. Blister the side you think affected, about the middle of the false ribs for about a foot square, six inches above and six inches below the finish of the ribs ; back-rake, and clyster with six drachms of aloes, dissolved in a gallon of warm water ; and give one drachm of calomel, one drachm of emetic tartar, and one drachm and a half of aloes, made into a soft ball, every six hours, until the dung is well softened ; but if the bowels were relaxed from the commencement, which is the case sometimes, though very rarely, bleed not more than from three to four quarts, and give one drachm of calomel, half a drachm of opium, and one drachm of chereeta, every twelve hours, for three times ; after which, a pint of linseed-oil, and a pint of congee, mixed. Diet to consist of warm bran mash ; water with the chill off ; and, after twenty-four hours, a little dried, green grass. On recovering, you must rigidly attend to the leading paragraph, CLASS VI., p. 238, for a relapse is very likely to occur ; to prevent which, a dose of physic should be given about three weeks after, consisting of one drachm and a half of calomel overnight, and four drachms of aloes in the morning.

Inflammation of the spleen seldom takes place. Symptoms and treatment the same as “ LIVER.”

\* See “ BLEEDING,” p. 85.

## INFLAMMATION OF THE STOMACH

may also be said to be very rare, and not to be distinguished from inflammation of the bowels. Symptoms and treatment are the same as in that disease.

## INFLAMMATION OF THE HEART

is another very rare disease, and more resembling inflammation of the lungs. If a horse dies of the latter, the former may be found inflamed; the same as when a horse dies of inflammation of the bowels, the stomach on dissection may also be found inflamed: but, as primary diseases, they are both allowed to be very rare.

INFLAMMATION OF THE KIDNEYS; THE NECK OF  
THE BLADDER; AND BLADDER,

are caused by cold; continued rain dropping on the loins; over-riding, or strain of the loins; not allowing the horse to stale, if he requires it, whilst riding; long feeding on musty gram, &c.

*Symptoms of Inflammation of the Kidneys, the Neck of the Bladder, and Bladder, are the same.—*

The mouth is hot and dry; the pulse greatly increased; and the head anxiously turned towards the flanks, as under other inflammations: but here there is often observed a stedfast gaze towards the affected part; the head being turned over the body, and the muzzle almost put on the loins, instead of slightly directed towards the belly. The most distinguishing symptoms, however, are the hind legs. He stands wide apart; straddles broad when walked; and shows great pain, by shrinking when the loins are pressed on. The testicles are occasionally drawn close to the body, and then let down again. He strains to stale, and the little that is passed is high-coloured, or bloody; but he is not so continually lying down and getting up again as when inflammation of the bowels is just taking place.

*Treatment.*—Bleed,\* from six to eight quarts, three to four from each vein, at the same time; back-rake; clyster with four ounces of linseed-oil, and four drachms of aloes, mixed in four quarts of thin warm rice congee. Give a drench of

\* See "BLEEDING," p. 85.

physic, consisting of four ounces of linseed-oil, and four drachms of aloes, in a pint of thin congee. Put a mustard poultice\* over the loins, laying the same on the inside of a sheep-skin, if at hand. A blister is not allowed; so if the mustard poultice cannot be had, foment the loins every half hour with nearly boiling water, and keep them well warm during the intervals. Cover up with a warm jhool, if in cold weather: hand-rub the legs, and bandage them up to the knees in flannel, or grass; but keep the horse in a cool place. When the physic has operated, half a drachm of digitalis, half a drachm of emetic tartar, and two drachms of finely powdered gum-arabic, made into a ball with linseed meal or ghoor, should be given once in every eight hours: the digitalis to be left out after six doses, and the emetic tartar and gum after ten. Warm bran mash; water with the chill off; and, after twenty-four hours, a little dried green grass may be allowed for the diet. Clysters of plain warm congee should be used once in every eight hours during the day of the attack, in order to foment and soothe the inflamed parts. On recovery, treat as under leading paragraph, CLASS VI., p. 238. Should the

\* Mustard poultice:—Mustard-flour and linseed-meal, equal parts: mix them together with an equal quantity of hot vinegar.

hindlegs remain stiff for more than a fortnight after the disease is subdued, put a charge over the loins.\*

## INFLAMMATION OF THE FEET

is caused by hunting, or hard riding, or driving over stony ground; by severe training, particularly if the course is hard; by washing the feet in cold water whilst hot, or, *vice versa*; when in a high latitude, by putting the horse into a hot stable, and bedding the feet up in deep hot grass the instant of return from the cold air; or, by inflammation being transferred from the lungs, or any other organ, to the feet. The two fore-feet only are generally attacked, but sometimes all four.

*Symptoms.*—The pulse becomes greatly increased; the inside of the nostrils red; and the countenance distressed, as in other inflammations; but the horse is here evidently very uneasy on his legs, and when he lies down the muzzle

\* Charge:—Pitch, one pound; tar, one pound; bees'-wax, quarter of a pound; resin, two ounces; heat them together, and when a little cool, spread thickly over the loins, strewing over flocks of short tow immediately it is on. This will stick fast for six weeks, or two months; during which time the horse must be well walked; but not mounted.

is often rested directly on the affected feet, which are always found intensely hot; and the arteries on the sides of the pastern throbbing distinctly. These last symptoms are what we are told to rely on, as the distinguishing marks of this complaint. He occasionally breaks out into a sweat, but never attempts to paw with his feet, or to kick at his belly; and when down, though he may groan quite as much as when any of the previously mentioned vital organs are the seat of attack, yet he never rolls. Under any other inflammations also that had existed only an hour or two, the horse would be able to walk without exhibiting any pain in the extremities; but in this, the fore-feet are lifted up and put down again, similar to a man suffering from broken chilblains, and having a boot on; notwithstanding, you will seldom discover the disease till all the symptoms become fully marked.

*Treatment.*—Take the shoes off very gently, filing away the clenches, and slowly withdrawing each nail separately, for the pain is intense. Thin the sole all over as well as you can, cutting away small chips from the crust also, with the drawing-knife, and then filing even. You must do this when he is down, if he is unable to stand



to allow it. Bleed three quarts from each affected foot ;\* if you cannot get that quantity, take as much as you can, and then bleed six quarts from the neck vein. The bleeding over, put the feet into warm poultices of bran and linseed-meal. Back-rake, clyster, with warm soap and water, and give the mild aloetic salt drench, p. 99 ; also one drachm and a half of emetic tartar, two drachms of nitre, and two drachms of cream of tartar, morning and evening, for three days, dissolved in half a pint of warm water. Make a large soft bed, that he may lie down as much as possible ; but, for the first three days, the diet must be only bran mash ; water with the chill off, and occasionally a handful of green grass. On the following day after the attack, if the inflammation has not subsided, bleed again, three quarts from each foot ; and if the horse is fat, change the warm poultices to swabs of cloth, which wrap round the hoofs, keeping them well wet with two ounces of nitre dissolved in a quart of the coldest water. On the third day, if the inflammation still remains, the pastern, round about the coronet, is to be blistered ; but unless the blistered part is well covered up with a cloth, and also something put round the neck to prevent him getting at it with his mouth, he will

\* See " BLEEDING," p. 85.

tear it off, and the pastern will then for ever remain denuded of hair.

#### INFLAMMATION UNDISCOVERABLE

would not be so common, if people would only take the trouble to read over quietly the different inflammations in the stable, in presence of their horse when reported sick; yet some, who do take that trouble, are often in such a fright, if the horse is valuable, or in such a hurry, that they fail in catching the symptoms indicative of the part affected.

If the lungs are the seat—the purple nostril; the stiff fixed standing, with the forelegs rather apart; and the deathly claylike coldness of the ears and legs, are the principal distinguishing signs.

If the bowels—the redness of the eyelids, when turned down; the lying down and getting up again; and coldness of the ears and legs.

If the liver—There will be yellowness about the eyes, added to the other symptoms of inflammation of the bowels: and if you here make a mistake, the treatment for this will possibly cure the other, although, of course, not so well, nor so safely, as purging is dangerous when the bowels are the seat.

If the kidneys—the stradling of the hind legs, and shrinking on pressing the loins.

If the feet—they are hot, instead of cold; the muzzle often resting on them when lying down, and the great disinclination to stand.

The note at the bottom of the page, however, ought to serve as a guide and warning, to convince yourself that inflammation really does exist in some part before you commence to cure.\*

\* A horse that had been for some months having only very gentle exercise, was taken out and galloped after a hog. On return to his stall, he immediately lay down. The alarmed master, without feeling the pulse or asking any body's opinion, took five quarts of blood. The poor animal not being much refreshed by this, a friend recommended he should be clystered and physicked. The horse, after this, getting more "gureeb" still, they both allowed that it was a most extraordinary case, but that, as he appeared so near dead, bleeding again could not do harm, if it did not do good. At this stage, as I lived close by, my advice was solicited. I had seen the horse on his first return: his case was plain enough—a little overgalloped when not in wind, and brought home hot. Out of pity for the poor brute, I undertook to do all I could, saying, I had a bottle of Elixir lately sent me from London, just adapted for these obscure cases. I then mixed some sawdust, red-ink, and blue-paint, in a quart of sour claret for the master to smell at, and putting the sufferer, half-dead from treatment, into a loose open stall, with a large soft bed, washed his mouth out with the Elixir of warm water, and left

## CLASS VII.

## RED URINE,

in India, must be considered as arising more from some little derangement in the digestive functions, than as a primary disease of the kidneys; and what would alarm in England, is here allowed to pass almost unnoticed. The native remedy is ghoor and ginger, six drachms of each, mixed, and given daily, for three days; and if the pulse is not increased beyond its natural standard, half of this may be tried. If there is too much excitement, a pint of the dhye (sour milk) sweetened with a small lump of ghoor, and given every morning, would be preferable. Some boiled food, with a little bran mash, and dried green grass, or lucern, should never be forgotten.

Red urine, as a disease of the kidneys, or from inflammation, must be treated of separately.

him with a little green grass till the following morning. The horse survived; and the owner gave me a gold mohar for a pint of the mixture; and his hunter, from henceforth, went by the name of, Impostor.

*J. Western*

*Hydroiodate of Potass ʒi.  
Syrup to form the Ball.*

*Give one Morning and Evening for 2  
days consecutively - then discontinue  
Repeat if necessary.*

## BURSANTEE.

Various are the remedies that have been employed for this disease, and it is rather unconsolatory to find, that no veterinary surgeon, at either of the Presidencies, has yet condescended to favour the public with a paper on the subject. If, then, we are to be doomed to grope out a cure ourselves, I cannot too soon add my ideas to those of other amateurs, who have already written for our benefit in the "Sporting Magazine;" such recommending the madar, blue vitriol, &c.

In accordance with its name, the months of June, July, August, and September, generally the two middle ones, are the periods at which this disease breaks out. The worst cases are always low, damp, and "feverish," situations. It rarely occurs in a bad form in the Deccan; a dry "liverish" climate, like this, is one of the most effectual ingredients in the cure. When a horse is predisposed to break out with bursantee, and it happens to be at an unfavorable station, and he is at the same time neglected, the usefulness of the animal is then destroyed for seven or eight months, and he will too often retain the scars, and loss of hair, for ever. It being my opi-

nion, that the cause lies in a constitutional predisposition, which cannot be discovered till the complaint appears, and the only likely safeguard, against its breaking out severely, being a dry climate, I shall proceed to recommend a trial of that which in most cases will be found to expedite the cure. On the first appearance of the disease give a mild, warm drench of physic, \* consisting of aloes and Epsom salts, with a drachm of ginger, in rice congee. Three days after the physic has set, give half of a common masallah ball daily, for three days, then omit one day, and commence with two grains of cantharides, one drachm of ginger, one drachm of gentian, or chredate, and one drachm of anise-seed, in a ball; this to be given every evening, after the last seven o'clock feed. After six days increase the cantharides to four grains, and after twelve days, to six grains. After eighteen days, if the appetite improves, increase the cantharides to eight grains. After twenty-four days, discontinue the ball altogether for three days, and then commence again with the first quantity of only two grains, increasing to the second, as before, and so on through the whole monsoon. The food during this time, whether the horse is fat or thin, is to be boiled sago, boiled barley,

\* See "PHYSICKING," p. 89.

boiled oorud and sheeps' heads,—try everything to induce him to eat the sheeps' heads, or in default, any strong meat broth,—and the more black salt he will *willingly* eat with his grain and bran mash the better.

If the horse is gross, and unable to take much exercise, from the largeness of the sores or swelling of the limbs, still liberal (not over) feeding on this kind of diet cannot be dispensed with: you must muzzle occasionally at night. Lucern and green grass, cut the day before, I am also friendly to in small quantities. Keeping the horse in a dry loose stall, well littered at night-time, is of course to be remembered, and as much walking, or gentle trotting exercise should be given, morning and evening, as possible, for which you may as well take off the shoes. The external application for the sores (and to apply which, you should endeavour to obtain the assistance of a clever native farrier) is the native poultice:—

Seem ke putta, as much as the size of an egg.

Chitrawal ke putta, ditto.

Vikmar, as much as two peas, or two gram.

Fulkeree, a quarter of a rupee weight.

When the sores are small, four tea-spoonsful of the koorkum-ketail, half a tea-spoonful of

finely-powdered blue-stone, and half a one of alum, all mixed, will frequently dry them up. As a preventative for the ensuing monsoon, I should recommend the same treatment to be commenced with on the 1st of May, and carried on to the 1st of July, but not increasing to the eight grains of cantharides, unless some symptoms of breaking out again show themselves, in which case you may gradually go up to ten grains. The cure, of course, consists in eradicating all tendency to the disease from the constitution, as the sores would generally heal of themselves by October or November. Many persons are advocates for the application of the hot iron, or the caustic madar, to the sores, and giving large doses, internally, of blue vitriol in solution. It is not for me to say anything against this treatment in severe cases to those who understand how to use these remedies, but there is no more analogy between bursantee and farcy than there is between a common cold and glanders.



## WARRANTING.

CAVEAT EMPTOR, at p. 253, says, "It is known that horses have secret maladies, which cannot be discovered by the usual trials and inspections; therefore the buyer requires a Warranty of Soundness, to guard against such latent defects." I have taken the liberty of extracting a great deal of the language, that follows, down to the line at p. 178, finishing with the words "knowledge of the seller," from the above author, and converting the same to my own purpose; for which plagiarism I offer every apology. The arguments and recommendations, however, in various parts of "Caveat Emptor," in support of Warranty, are not exactly applicable to India, nor can I agree with them even for England, being opposed to warranty in every shape; so, with all due deference to the ability and the pleasantry displayed in the writings of that author, I am about to advise you to swamp all warranty, for these reasons:—

1st. If you sell a horse to-day that either has a slight cold on him, or catches one during the time of sale, and that cold, from improper management or neglect, degenerates into a chronic cough, the purchaser may, perhaps, declare he had a chronic cough on him at the time of sale, and bring evidence to prove the horse coughed the minute he came out of your hands, and has coughed every day since: if warranted, in law you *might* be liable, and have to take him back.

2nd. If you sell a horse, that should die two months afterwards of chronic diseased lungs, and a veterinary surgeon was to declare, from appearances on dissection, that the horse must have been diseased for a period of three months, and, consequently, must have been so at the time of selling: if warranted, in law you *might* be liable, and have to refund the money.

3rd. If you sell a horse that, four or five months previously, had put out his hip, strained his shoulder or back sinews, or had been lame from navicular disease; and a fortnight or so after purchase, he again puts out his hip, strains his shoulder, or back sinews, or becomes lame again from navicular disease: if warranted, in

law you *might* be liable, and have to receive him back.

Caveat Emptor, p. 304, quoting from Lord Ellenborough says: "I have always held, and now hold, that a warranty of soundness is broken, if the animal at the time of sale had any infirmity upon him which rendered him less fit for present service."

1st. Again, if you sell a horse perfectly fresh and unblemished, and that horse, a week afterwards, throws out a spavin: if warranted, in law you *might* be liable, and have to receive him back.

2nd. If you sell a horse perfectly fresh and unblemished, and that horse, a month afterwards, becomes blind from ophthalmia; and the purchaser proves that the sire and dam of that horse were blind from that cause, it is an hereditary disease: if warranted, in law you *might* be liable, and have to receive him back.

Caveat Emptor, p. 313. "Where, however, the proof of pedigree and hereditary disease are both accessible, it seems clear that a constitutional taint is unsoundness."

From the foregoing two sets of examples, with the quotations from law at the bottom of each, and which have been brought to bear on

exactly similar questions, you may judge of the difficulties you might occasionally be placed in, as a seller, by warranting. I have used the word *might* throughout them all, nothing regarding horseflesh in law being positively certain, for so much depends on particular circumstances. "Unsoundness itself is sometimes sufficient to break a warranty; at other times there must have been knowledge of the unsoundness. Most cases are questions for the jury, rather than of law. No legal contract can be founded on fraud, and wilful deception amounts in law to fraud." This is plain enough; yet, if you take your case to law, the chances are always nearly equal, whether it will be decided for or against you; "not from any defect in the law, but because both buyer and seller have always proofs of the shameful transaction."

Suppose you gain your cause: if you have been a seller, your horse may be returned to you half-ruined; and if you have been a purchaser, you are always bound to return a horse in as good a state as he was when taken from the seller's hands. Here is a second affair that may upset your first, and cost you another large sum. Avoid law, if possible, and never enter into any discussion: "your character, if you

have any, will not be enhanced by embroiling yourself in a quarrel with a cheat;" but in order to prevent disputes, as well as litigation, never warrant, nor ask for a warranty. Do not commit yourself either, by saying, "He is sound as far as I know:" this is a qualified warranty, and the purchaser may maintain *assumpsit* upon it, "if he can show the horse was unsound to the knowledge of the seller." Such might be fair in some cases, but very unfair in others, and it might lead to great disputes; for every man who really knows a horse, must be fully aware there are not ten in every hundred that can strictly, professionally, and legally, be called sound. This, therefore, should be your only warranty:—"There's my horse, his price is — rupees, ready coin; you take him with all faults and diseases; I allow you a quarter of an hour's inspection, and I will send him over when you send the money." There are even objections to allowing a man to try your horse. A friend of mine had a chestnut Arab for sale. A purchaser called to inspect him; he appeared to suit; was sound, wind and limb; fresh, unscarred, and four years old; price 1200 rupees. "I like him much," said the purchaser; "might I throw my leg over him?" "Yes," said my

friend, "ride up and down here as long as you wish, in my presence." He mounted; walked, trotted, and cantered; the action was good in every respect. You imagine, perhaps, the horse was sold. No, he now discovers two objections; he did not want a chestnut, he wanted a grey; and he did not like to go to so high a price as 1200 rupees. The chap ought to have been forced to take him. I wonder how an imposition of this kind would be decided at law? If fifty heavy men were to play this trick on a slight blood Arab, his action, of course, would be none the better for it.

Having recommended you, as a seller, never to warrant, and consequently, in equal fairness, as a buyer, never to ask for a warranty, there is the greater reason in the latter case for you to proceed with caution, and if distrustful of your own judgment, to have a friend with you. When, therefore, a horse is brought out for inspection, if the appearance, figure, limbs, &c. do not satisfy, make your *congé*, but do not abuse another man's property when at sale. If you are pleased, and fully certain that it is a horse you want; that the colour and price will suit, and that you have got the money ready to pay, take ten minutes' examination, or allow your friend

to do it for you, then solicit five minutes for a walk, trot, and canter; in a quarter of an hour let your decision be final: *if undisturbed* by the owner, this is ample. In England the case is different; there it is always advisable for an inexperienced person to have a new purchase submitted to a veterinary surgeon besides, for a couple of hours, a day, or two days, as he may think necessary. Half a guinea is all you have to pay, and this, with your own, or your friend's eyes, to boot, is abundance of warranty. Some persons, however, expect too much from a veterinary surgeon. A professional man can only tell you of any disease or remains of disease, or fault in the build, which is likely to produce disease or strain. He cannot tell you, merely by looking, if a horse is subject to gripes, rheumatism, or inflammation, unless some outward sign or symptom remain. He cannot tell you if a horse has ever been sprained, unless there is enlargement, mark as of blister, or something externally to denote it. He cannot say either if one horse is more liable to become blind, throw out a curb, spavin, or splent, than another, unless there is some visible sign or malformation, or he knows the sire and dam, or grand sire and dam, had these defects; and then he may say,

"These diseases being often hereditary, or this build being faulty, they are more liable to occur in your horse." Beyond this, no uninspired veterinary surgeon can caution you. When a recruit presents himself before the surgeon of the regiment, on enlisting, do you suppose the surgeon could tell if he had fever last year, or sprained his leg last year, unless some evident weakness or enlargement remained? How can he tell if he is subject to gripes?

Buying a horse blind in both eyes, it is said you cannot return him as unsound. *Caveat Emp-tor*, p. 274. "But it has been held that a warranty against visible defects is bad in law, the purchaser being expected not only to possess ordinary skill, but to exhibit ordinary precaution." But a large splent extending on to the back sinews, a large spavin, large curb, or contracted, foundered foot, anchylosed pastern-joints, are all as visible defects as blind eyes: they are palpable defects, yet they constitute unsoundness: but "law is law."

Much has been said against dealers in England, and dealers in India too. I have seen some black tricks in both countries; notwithstanding, I think, in the long run, dealers are as much sinned against as sinning. In either coun-



try, every man is bound to be wide awake, or, as the judge says, expected, not only to possess ordinary skill, but to exhibit ordinary precaution ; and experience tells me to trust a dealer quite as soon as a gentleman.\*

Every novice in horseflesh is satisfied with his new hobby for a week. A horse, however badly bred, or faultily built, if only in good external condition, will always catch his eye before a thin one ; and bog-spavins, thorough-pins, capped hocks, and windgalls, as well as the round shank-bones and dents, are all less likely to be taken notice of when the nag is in plump order ; many having a bone-spavin, a contracted long foot, or founder, have I seen pass through three or four hands, each new possessor alike unconscious of anything wrong : these treasures, whether

\* Addison's definition of the word gentleman is "a term of complaisance, sometimes ironical." And gentlemen, and passers for gentlemen, are as often mystically mixed up together in one house, as thorough-breds and passers for thorough-breds are in the same stable.

At a dinner-party of eight, some few years ago, the conversation turning upon horse-flesh, I happened to let fall my ideas of the little general honesty existing in any part of the civilized world, in selling a horse. My *vis-à-vis* exclaimed, "Impossible ! no gentleman would ever attempt to pass off an unsound horse." Five more of the party chimed in to this most

latent or patent, not being always discovered till the horse is hunted, or suddenly becomes lame. Kind Griffins, then, for whom this volume is chiefly written, I most fully exonerate, and acquit you of the charge of intentionally deceiving; yet, for reflecting on your judgment, and

creditable speech, so well calculated to delude the unwary, leaving only one of the same opinion, or, rather, who acknowledged the same opinion, as myself. Clearly seeing that I had got into company with either knaves or fools, most probably a little of both, I thought more nourishment was to be gained at this house for the body by drinking, than for the mind by talking, so I allowed the subject to drop. Three months had not elapsed, when my *vis-à-vis*, the "impossible" gentleman, asked me to look at a horse of his that had been sprained, and blistered, but was still lame. The horse had a ringbone on one pastern, besides something else internally wrong in the foot of the other, arising, most probably, from concussion; so I pronounced him incurable under eight months,—very probably, not then. "What shall I do?" said he. "Write on half a sheet of paper," I replied, "that the horse has been lame for two months—is thought to be incurable—and that he is in the market for sale." The man burst out laughing. He afterwards tried to get rid of him, but failed; for I took especial care that none of my acquaintance should be deceived by such an apostate as this. He then sent him to a dealer, who refused to sell him as sound. At last, he handed him over to a friend to dispose of, from whom he received nearly the full amount of his original cost. I did not discover the unlucky wight that was imposed upon; but, fancy this hypocrite crying out, "Impossible!" Here lies the honest distinction between a man wanting to buy, and one wanting to sell.

for daring to assert, that if you want knowledge you must begin with "BLUNT SPURS," I know you would like to see me "regularly bitten." Friends, impose upon me with every fault and infirmity the horse is subject to; from the day this book issues from the press, I know I must be considered fair game; but if you have the slightest compassion for a man who has endeavoured to save your limbs, as well as your money, I implore you, never ask me to buy

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It was my original intention to have sent this Treatise forth with a brief exposition of every complaint and accident the horse is subject to, which I had divided into thirty-five classes, under a hundred and fifty heads, but at present I am prevented doing so: at some future period these may possibly be added. On the request of an old acquaintance, not to fail to subjoin a few lines on red urine, and bursantee, I have dwelt a little on these two diseases, though out of their place.

I have now to acknowledge my thanks to Professors Spooner and Morton, of the Royal Veterinary College, for their very great kindness in perusing the foregoing before publication; Mr. Morton has, also, most obligingly undertaken the trouble of seeing the whole through the press for me; and if there are any little points not in strict accordance with the views of these scientific gentlemen, they are, perhaps, of no great importance. I can, however, assure you my manuscript received due praise, especially for the forcible expounding and illustration of the Foot and Heel; and I therefore am entitled to expect the work will soon realize me half a fortune; in order to

succeed in which, I am about to change half my name. In conclusion then, critical gentlemen, I respectfully caution you to "Ware Name,"\* and if you do not liberally patronize these pages, drawn out by the head of BLUNT SPURS, you may yet get punished with a heel, and be brought to the ground by

SHARP SPURS.

\* "Ware horse," I suppose, you know, is the caution given in England to the bystanders, when a horse is brought out for sale.

*Handwritten notes and signatures:*  
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THE END.

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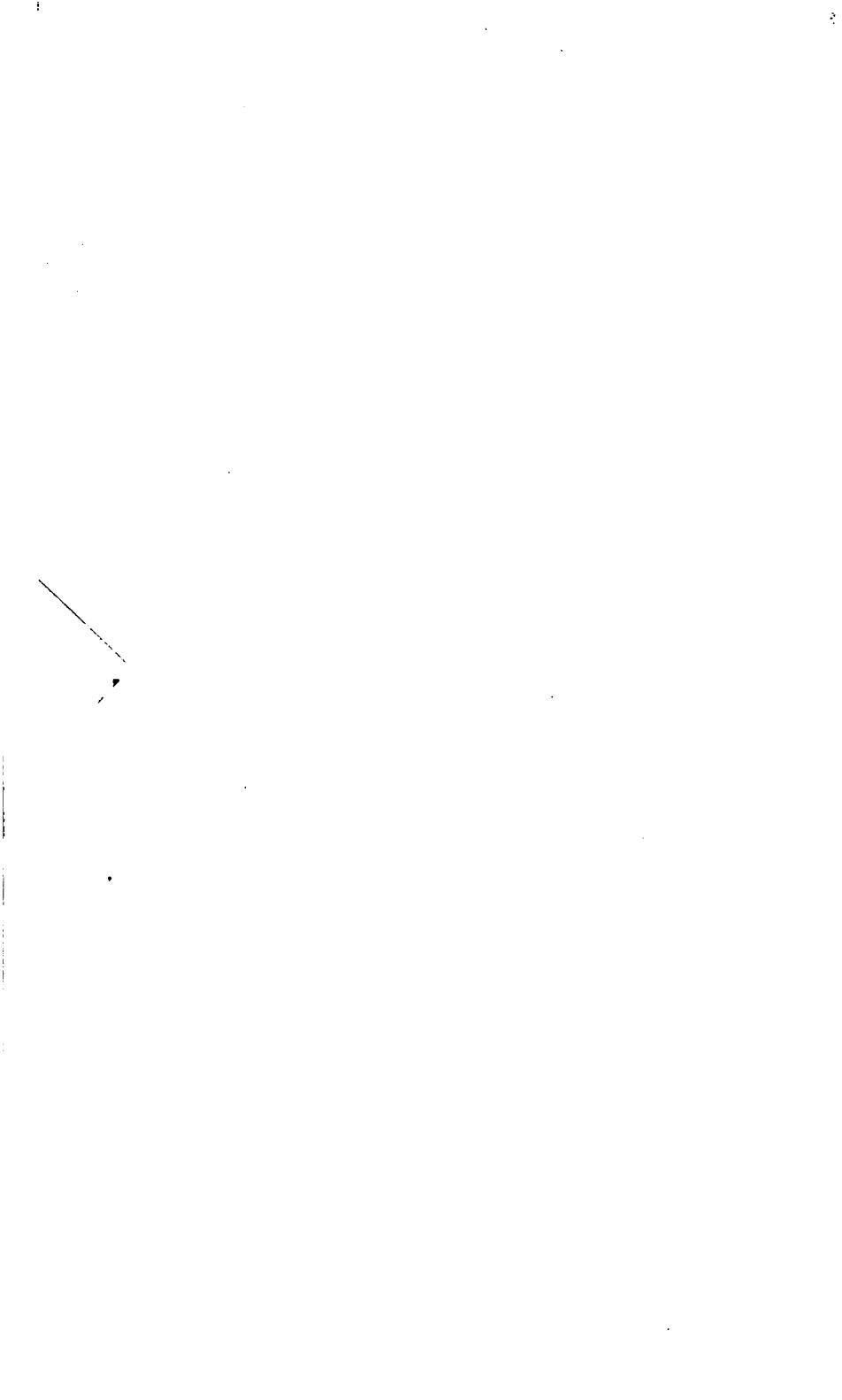
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